



# 55th ASMS Conference on Mass Spectrometry and Allied Topics

June 3 - June 7, 2007  
Indiana Convention Center  
Indianapolis, Indiana



**TABLE OF CONTENTS**

General Information.....	2
Downtown Shuttle.....	3
ASMS Board of Directors.....	4
Interest Groups and Committees.....	5
Awards.....	6
Research Awards.....	7
Convention Center Floor Plans.....	8
Exhibit Hall Floor Plan.....	9
ASMS Corporate Members.....	10-12
Corporate Hospitality Suites.....	13-14
Program Acknowledgements.....	15
Program Overview - Sunday, Monday, Tuesday.....	16
Program Overview - Wednesday, Thursday.....	17
Interest Group Meetings.....	18
Workshops.....	18
Poster Topics - Monday, Tuesday.....	19
Poster Topics - Wednesday, Thursday.....	20

*Title information in the following sections appears as provided by authors.*

*The complete abstract database is available through the ASMS web page: <http://www.asms.org>*

Monday Morning Oral Sessions.....	21
Monday Afternoon Oral Sessions.....	23
Tuesday Morning Oral Sessions.....	26
Tuesday Afternoon Oral Sessions.....	28
Wednesday Morning Oral Sessions.....	31
Wednesday Afternoon Oral Sessions.....	33
Thursday Morning Oral Sessions.....	36
Thursday Afternoon Oral Sessions.....	38
Monday Posters.....	42
Tuesday Posters.....	69
Wednesday Posters.....	95
Thursday Posters.....	121
Author Index.....	145

## GENERAL INFORMATION

Welcome to the 55<sup>th</sup> ASMS Conference on Mass Spectrometry and Allied Topics. Conference program activities and exhibit booths are in the Indiana Convention Center. Corporate Member hospitality suites are located in the Marriott and Westin Hotels.

**PROGRAM NOTE.** The hospitality suite maps and the program pages are perforated for easy removal from this book. The perforated pages are 13, 14, 16, 17, 21 – 26.

**WAKE UP COFFEE** is available in the Indiana Convention Center, lobby level at 7:30 am, Monday through Thursday.

**PLENARY SESSIONS.** The opening program is 8:00 am on Monday. Plenary Sessions on Tuesday, Wednesday and Thursday are 4:45 pm. Plenary sessions are in Exhibit Hall D.

### ORAL SESSIONS

- Session A** (MOA, TOA, WOA, ThOA), Exhibit Hall D
- Session B** (MOB, TOB, WOB, ThOB), Wabash Ballroom
- Session C** (MOC, TOC, WOC, ThOC), Room 120-124
- Session D** (MOD, TOD, WOD, ThOD), 500 Ballroom
- Session E** (MOE, TOE, WOE, ThOE), Sagamore 5-6-7
- Session F** (MOF, TOF, WOF, ThOF), Sagamore 3-4
- Session G** (MOG, TOG, WOG, ThOG), Sagamore 1-2

**POSTERS AND EXHIBIT BOOTHS** are in the Exhibit Hall. Exhibit Hall is open 7:30 am – 8:00 pm, Monday through Wednesday. The hall will close at 3:30 pm on Thursday.

**REGISTRATION** is open as follows: 10:00 am – 8:00 pm on Sunday, 7:30 am – 5:00 pm on Monday through Thursday.

**CORPORATE HOSPITALITY SUITES.** See page 10-14. Hospitality suites are open 6:30 – 11:00 pm, Monday through Wednesday. The suites are divided between the Marriott and Westin Hotels. The hotels are connected to the second level of the convention center via skywalk.

**SUNDAY TUTORIAL LECTURES.** The tutorial session begins at 5:00 pm, Sunday.

**5:00 pm Why You Can't Patent Ions (or Can You?)**

**Michael R. Asam;**  
*Fish & Richardson Attorneys at Law*

**5:45 pm Turning Mass Spectrometers into Chemical Reactors: Taking Full Advantage of Ion Chemistry; Scott Gronert;**

*Virginia Commonwealth University*

**WEB BROADCASTING OF SESSIONS.** Tutorial lectures, plenary sessions, and oral sessions will be web cast. Your last name and the User ID on the back of your name badge must be entered to view presentations. All presentations will be available until July 9. After July 9, presentations will be available only with author's permission. Web casting of presentations does not constitute publication and in no way jeopardizes the rights of authors to publish material that has been presented. To access the presentations, go to [www.asms.org](http://www.asms.org).

**INTERNET ACCESS.** Free wireless access is provided in the Exhibit Hall.

**ORAL PRESENTATIONS.** Only LCD computer projectors will be used for oral sessions. The ASMS session computers will be running Windows XP and the most recent version of PowerPoint. **Presenters must go to the speaker room at least one day prior to their talks** to load presentations on the ASMS computers. The speaker room is Room 109. The room is open with a technician present:

**Sunday:** 1:00 - 7:00 pm

**Monday through Wednesday:** 7:30 am - 3:00 pm

**POSTER SET-UP.** Posters must be in place by 8:00 am on the day scheduled and removed 7:30 – 8:00 pm. Thursday posters must be removed by 3:30 pm. **Refer to the poster numbers in this final program for board assignments.** Authors are expected to supply pushpins to mount their posters. Poster titles begin on page 42.

### POSTER SCHEDULE

#### Monday Posters

**11:15 am – 3:30 pm: All poster authors should be present**

11:45 am – 12:15 pm: Lunch break for odd-numbered posters

12:15 – 12:45 pm: Lunch break for even-numbered posters

#### Tuesday, Wednesday, Thursday Posters

**10:15 am – 2:30 pm: All poster authors present**

11:45 am – 12:15 pm: Lunch break for odd-numbered posters

12:15 – 12:45 pm: Lunch break for even-numbered posters

**INTEREST GROUP MEETINGS.** Interest Group meetings are scheduled during the lunch break, 12:45 – 2:00 pm. Schedule is on page 18.

**WORKSHOPS.** Workshops are scheduled 5:45 – 7:00 pm on Monday and Tuesday. See page 18 for schedule.

**CONFERENCE PROCEEDINGS.** The conference proceedings will be published on DVD after the conference. Manuscripts or pdf of PowerPoint presentations must be submitted through the ASMS web site prior to the conference.

**WELCOME MIXER, SUNDAY, 7:00 - 9:00 PM, Exhibit Hall.** Conference name badge is required.

### CONFERENCE FINALE, 5:30 – 8:00 PM, THURSDAY

The conference will conclude on Thursday evening with a gala reception at the Westin Hotel. Red dot on your name badge is required. Cost is \$20. Ticket sales close at 12 noon on Monday. The evening will include:

- **Tiki Bar** of tropical drinks and steel drums.
- **Wine Bar** complete with a variety of wines and hors d'oeuvres
- The music of **Xanadu**
- **Brew Bar** sponsored by **Agilent Technologies** includes sports TV, a dance floor and caricaturists, along with sliders, hotdogs, and fresh popcorn
- **Martini Bar** sponsored by **Thermo Scientific** with flair bartenders, carved roast beef and whipped potato "martinis."
- **Bubble Bar** for a champagne toast and dessert along with a jazz trio

**GUEST REGISTRATION.** Guest registration includes Sunday evening mixer and continental breakfast and welcome on Monday, 9:00 – 10:00 am in Room 108, lobby level. Cost for guest registration: \$20.

**LUNCHES.** Refreshments and lunches may be purchased in the Exhibit Hall and the food court of the convention center.

**EMPLOYMENT CENTER.** The Employment Center is located in the Exhibit Hall and is open to all conference registrants. Candidates and employers may register in the center beginning at 5:00 pm on Sunday. Enter through Exhibit Hall A. You must supply at least 20 copies of your resumé. The center is open Monday through Wednesday, 8:30 am to 5:00 pm, and Thursday, 8:30 am to 1:00 pm. Employers and candidates may come to the center to search the database of candidates and positions. There are a limited number of spaces available for conducting interviews. Interview spaces must be reserved one day in advance.

## GENERAL INFORMATION

### CONFERENCE HOTELS

Hotel	Address	
Amerisuites	5500 N. Bradbury	317-227-0950
Candlewood Suites	1152 N. White River Pwy	317-536-7700
Canterbury	123 S. Illinois St	317-634-3000
Columbia Club	121 Monument Circle	
Courtyard Capitol	320 N. Senate	317-684-7733
Courtyard Downtown	501 W. Washington St	317-635-4443
Conrad	50 W. Washington St.	317-713-5000
Crowne Plaza	123 W. Louisiana St.	317-631-2221
Embassy Suites	110 W. Washington St.	317-236-1800
Hampton Inn	105 S. Meridian St.	317-261-1200
Hilton	120 W. Market St.	317-972-0600
Hilton Garden Inn	10 E. Market St.	317-955-9700
Holiday Inn Express	410 S. Missouri St.	317-822-6400
Homewood Suites	211 S. Meridian	317-636-7992
Hyatt	One S. Capitol Ave.	317-632-1234
Marriott	350 W. Maryland St.	317-822-3500
Omni	40 W. Jackson Pl.	317-634-6664
Radisson Downtown	31 W. Ohio St.	317-635-2000
Radisson Airport	2500 S. High School	317-244-3361
University Place	850 W. Michigan St.	317-269-9000
Westin	50 S. Capitol Ave.	317-262-8100

**SHUTTLE BUS SERVICE TO AIRPORT HOTELS** is provided during the following hours:

- Sunday: 3:00 to 8:30 pm
- Monday – Wednesday: 7:00 to 9:00 am; 5:00 – 10:00 pm
- Thursday: 7:00 to 9:00 am; 5:00 – 8:30 pm

### CONFERENCE REGULATIONS

- **Name badges** are required for all conference sessions, including the exhibit hall and the employment center.
- **No smoking** is permitted in the convention center.
- **Cell phones** must be **turned off** in oral sessions.
- **No photography or recording** in any session, including posters.
- **The placement of advertising** in the meeting area is strictly limited to Corporate Members. There are poster boards and tables in the Exhibit Hall for corporate member notices and literature. No signs on easels are permitted except at doors to hospitality suite rooms.
- **No hardware, terminals, accessories, or any items** for sale may be displayed in any area of the conference, except in corporate exhibit booths and hospitality suites.
- There may be **no organized activities** (even off-site) other than those approved by ASMS during the conference week (5:00 pm on Sunday through 9:00 pm on Thursday).
- **Corporate or institutional logos** may appear only in the title of posters in technical sessions. Logos appearing anywhere else in a poster will be removed or covered by ASMS.

### MEDIA EVENTS

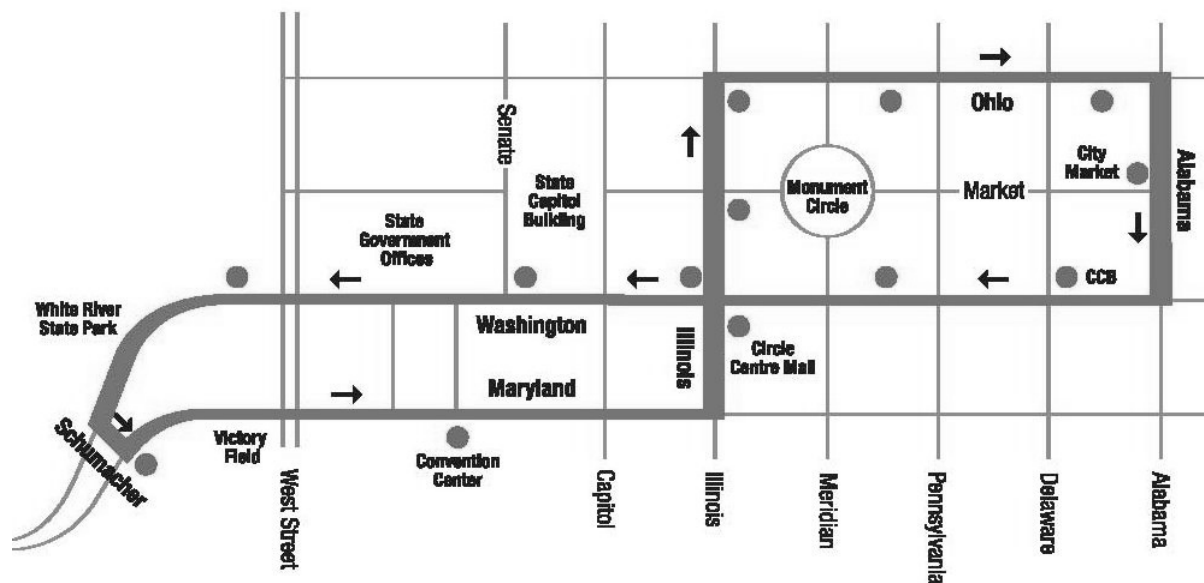
Corporate media events are scheduled on **Monday**. Members of the press and financial institutions are welcome.

Shimadzu Biotech	9:45 - 10:45 am	Room 104
Thermo Scientific	11:00 am - 12:00 noon	Room 103
ITT	2:15 - 3:15 pm	Room 103
Waters Corporation	4:30 - 5:30 pm	Room 103

### ASMS

ASMS  
 2019 Galisteo Street, Building I-1  
 Santa Fe, NM 87505  
 Phone: (505) 989-4517 Fax: (505) 989-1073  
 E-mail: office@asms.org

**INDYGO "BLUE LINE" SHUTTLE ROUTE** extends from the White River State Park to the City Market and runs daily every 10 minutes from 10:00 am to 10:00 pm. Dots on the map below indicate stops. The fare is 25 cents.



## ASMS BOARD OF DIRECTORS

*President* **Barbara S. Larsen**  
The Dupont Company  
Wilmington, DE

*Vice President  
for Programs* **Gary L. Glish**  
University of North Carolina  
Chapel Hill, NC

*Vice President  
for Arrangements* **Daniel B. Kassel**  
Takeda San Diego, Inc.  
San Diego, CA

*Secretary* **Frantisek Turecek**  
University of Washington  
Seattle, WA

*Treasurer* **Julia Laskin**  
Pacific Northwest National Laboratory  
Richland, WA

*Member at Large  
Publications* **Carlito B. Lebrilla**  
University of California  
Davis, CA

*Member at Large  
Education* **Orval Mamer**  
McGill University  
Montreal, Canada

*Member at Large  
Measurements  
& Standards* **David N. Heller**  
U.S. Food and Drug Administration  
Laurel, MD

*Past President* **Alan G. Marshall**  
NHMFL, Florida State University  
Tallahassee, FL

*Executive  
Director* **Judith A. Sjoberg**  
2019 Galisteo Street, Bldg I-1  
Santa Fe, NM 87505  
505-989-4517  
E-mail: [judith@asms.org](mailto:judith@asms.org)

*Staff* **Cindi Lilly**, [cindi@asms.org](mailto:cindi@asms.org)  
**Brent Watson**, [brent@asms.org](mailto:brent@asms.org)  
**Jennifer Watson**, [jennifer@asms.org](mailto:jennifer@asms.org)  
**Marin Walker**, [marin@asms.org](mailto:marin@asms.org)  
**Carol Ann Short**, [carolann@asms.org](mailto:carolann@asms.org)

## ASMS

announces the election of these members to the  
Board of Directors

### Vice President for Arrangements



**Gary Siuzdak**  
*The Scripps Research Institute*

### Secretary



**Amina S. Woods**  
*NIH*

### Member at Large for Education



**Mary T. Rodgers**  
*Wayne State University*

**INTEREST GROUP COORDINATORS**

<i>Analytical Lab Managers</i>	Amy Harms University of Wisconsin
<i>Biological Macromolecules</i>	Viswanatham Katta Genentech, Inc.
<i>Clinical Chemistry</i>	Donald H. Chace Pediatrix Analytical
<i>Computer Applications</i>	Jeffrey L. Whitney Novatia LLC.
<i>Drug Metabolism &amp; Pharmacokinetics</i>	Jonathan L. Josephs Bristol-Myers Squibb Ragulan Ramanatha Schering Plough Research Institute
<i>Environmental Applications</i>	Mehran Alaei Environmental Canada
<i>Flavor, Fragrance and Foodstuff</i>	Dennis Swijter IFF
<i>Forensics</i>	Brian Eckenrode FBI Academy John Reynolds LLNL
<i>FTMS</i>	Michael A. Freitas Ohio State University
<i>Fundamentals</i>	John C. Poutsma College of William and Mary
<i>History</i>	O. David Sparkman University of the Pacific
<i>Hydrocarbon and Chemical Process</i>	Ryan P. Rodgers Florida State University
<i>Hydrogen Exchange &amp; Covalent Labeling</i>	John R. Engen Northeastern University
<i>Ion Mobility MS</i>	Herbert H. Hill Washington State University
<i>Ion Trap MS</i>	Gavin E. Reid Michigan State University
<i>LC/MS Related Topics</i>	Gérard Hopfgartner University of Geneva
<i>Metabolomics</i>	Grace O'Maille Akros Pharma, Inc. Ben Belanos Pfizer
<i>Metal Ion Coordination Chemistry</i>	Gary Groenewold Idaho Natl. Eng. Environ. Lab.
<i>Pharmaceuticals</i>	David Peake Eli Lilly Company
<i>Polymeric Materials</i>	Mark A. Arnould Xerox
<i>TOF-MS</i>	Matt Lasater Thermo Scientific
<i>Young Mass Spectrometrists</i>	Steven Patrie University of Chicago

**COMMITTEES**

<i>Asilomar Conference</i>	Hilkka Kentämaa, Chair Stephen Hofstadler Veronica Bierbaum Alan Marshall
<i>Audit</i>	Gary Van Berkel John Eyler Susan Richardson
<i>Corporate Liaison</i>	Alan Marshall, Chair Daniel Kassel Michael Sabatino Laurie Caviston Carol Harp Lance Nicolaysen Wendy Weise
<i>Education</i>	Orval Mamer, Chair John C. Poutsma Karen Jonscher Jianjua Ren Christine Hughie
<i>Archivist</i>	Michael Grayson
<i>Measurements &amp; Standards</i>	David Heller, Chair William E. Wallace Phil Price John Bartmess Martha Vestling
<i>Nominating</i>	Robert Murphy Susan Richardson Alfred Jergey Rachel Loo Swapan Chowhury
<i>Publications</i>	Carlito Lebrilla, Chair Elaine Marzluff Scott Gronert Tony Hsieh Michael Gross (Ex Officio)
<i>Sanibel</i>	Peter O'Conner, Chair Charles McEwen Ljiljana Pasa Tolic David Heller

**AWARD FOR A DISTINGUISHED CONTRIBUTION IN MASS SPECTROMETRY**

**Award Lecture: 4:45 pm, Tuesday**

**2007 Recipient: Jesse L. (Jack) Beauchamp**

**“Ion Cyclotron Resonance for Studies of Ion-Molecule Reactions”**



The 2007 award is presented to Professor Jesse Lee (Jack) Beauchamp for his seminal contributions to the development of ion cyclotron resonance as a tool for studies of gas phase ion chemistry. While a graduate student during the period 1964-1967, and even before the first ICR instrument was operational, Professor Beauchamp published a complete analysis of the phenomenon of ion cyclotron resonance. This theoretical analysis provided the inspiration for the first ion cyclotron double resonance experiment, which became an important technique for studying ion-molecule reactions in the gas phase. In a highly-cited 1971 review titled “Ion Cyclotron Resonance Spectroscopy,” Professor Beauchamp describes the technique’s utility for determining rate constants, acidities and basicities in the absence of complications due to solvation, and reaction mechanisms of organic and inorganic ions. These studies have evolved in numerous laboratories around the world and remain a major activity of many research groups. Professor Beauchamp is presently employing ion cyclotron resonance to investigate biochemical problems, including the chemical sequencing of peptides and nucleic acids and determining the properties, reactions and structures of biologically significant molecules.

**THE BIEMANN MEDAL**

**Award Lecture: 4:45 pm, Wednesday**

**2007 Recipient: Roman A. Zubarev**

**“Electron Capture Dissociation for MS/MS”**



The 2007 Medal is presented to Roman A. Zubarev for his leadership in developing electron capture dissociation for MS/MS. Dr. Zubarev showed that ECD preferentially breaks the N-C peptide linkage in underivatized peptides. Cleavage induced by ECD is essentially random along the peptide chain enabling more complete sequencing based on “c” and “z” ions. This dissociation method contrasts with collisional and multiphoton dissociations, which lead to breakage of the weakest bonds. Dr. Zubarev also demonstrated that ECD achieves peptide cleavage without loss of common post-translational modifications, making it the method of choice for determining the nature and sites of such modifications. Since the initial publication in 1998, there has been an exponential rate of growth in research in the ECD technique. Dr. Zubarev has extended the range of ECD applications from FT-ICR mass spectrometers to quadrupole ion traps. He continues to investigate related techniques in the newly established area of ion-electron chemistry, including “hot ECD” which can distinguish leucine from isoleucine, electron detachment dissociation that cleaves the C-CO bond in negative ion mode, and electronic excitation dissociation that can increase cation charge.

**CALL FOR NOMINATIONS FOR 2008**

**Award for a Distinguished Contribution in Mass Spectrometry.** The person nominated should have made a contribution that has had a significant impact on the fundamental understanding and/or practice of mass spectrometry. Eligibility is not restricted to members of ASMS. The award is announced at the ASMS Annual Conference with the presentation of a \$10,000 cash award and a recognition plaque.

Name of person nominated \_\_\_\_\_

Affiliation \_\_\_\_\_

Address \_\_\_\_\_

Nominee’s email: \_\_\_\_\_

Your name & email: \_\_\_\_\_

Supporting letters (one page) will be provided by: \_\_\_\_\_

\_\_\_\_\_

**The Biemann Medal** recognizes a significant achievement in basic or applied mass spectrometry made by an individual early in his or her career. Nominees are expected to be 40 years old or younger at the nomination deadline. The award is presented at the ASMS Annual Conference with the presentation of the Biemann Medal and a \$5,000 cash award.

This individual is nominated for:

- Distinguished Contribution in Mass Spectrometry  
 Biemann Medal Age of Nominee \_\_\_\_\_

Please enclose the following:

1. **Short description of the achievement** (1-2 paragraphs);
2. **A list of the nominee's publications** pertaining to this award and;
3. **A copy of no more than two of the nominee's publications** relevant to the subject.

Send completed nomination form and enclosures for receipt by November 30 to:

ASMS Awards  
2019 Galisteo Street, Building I-1  
Santa Fe, NM 87505  
office@asms.org

2007 RESEARCH AWARDS

*Sponsored by*  
**Thermo Scientific**



**Rebecca Jockusch**  
*University of Toronto*

*Sponsored by*  
**Applied Biosystems/MDS Sciex**



**Joshua J. Coon**  
*University of Wisconsin*

*Sponsored by*  
**Waters Corporation**



**Gavin E. Reid**  
*Michigan State University*

---

**CALL FOR 2008 RESEARCH AWARD PROPOSALS**

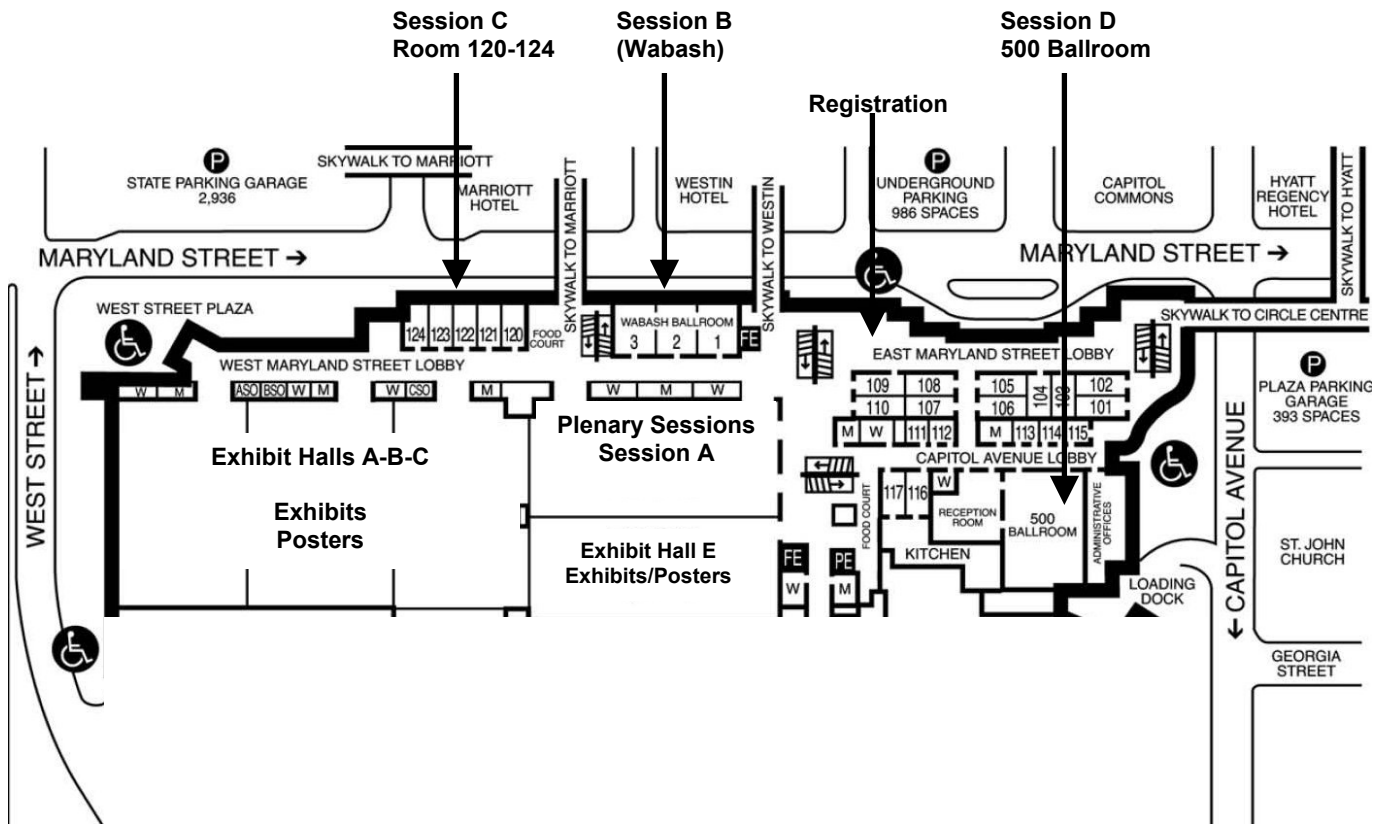
---

- OBJECTIVE** To promote academic research by young scientists in mass spectrometry.
- ELIGIBILITY** Open to academic scientists within four years of joining the tenure track faculty or equivalent in a North American university. Applicants may not have previously received an award under this program.
- APPLICATION** Applicants should submit **SEVEN** collated sets of the following
1. One-page fiscal proposal and justification
  2. List of current research support
  3. Three-page proposal, including references, figures, etc.
  4. *Curriculum vitae*
  5. Two letters of recommendation (may be sent directly to ASMS)
- DEADLINE** Application materials, including letters of recommendation, must be received in the ASMS office by November 30. Send to:  
ASMS, 2019 Galisteo Street, Building I-1, Santa Fe, NM 87505
- FISCAL** The awards of \$25,000 each will be made to a university in the name of the selected individual and for the researcher's exclusive use. In accepting this award, the institution will agree not to charge overhead on the funds.
- INFORMATION** Contact ASMS. Telephone: (505) 989-4517 • Fax: (505) 989-1073 • [office@asms.org](mailto:office@asms.org)

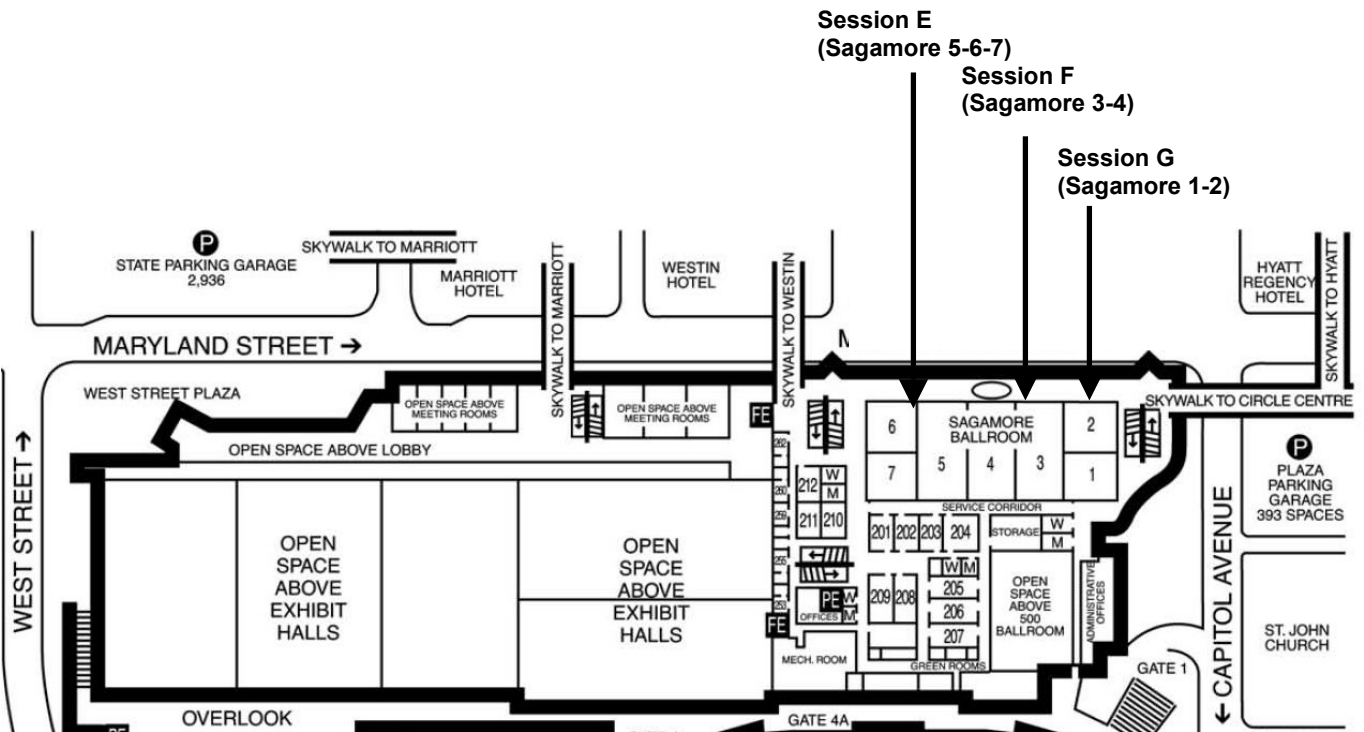


CONVENTION CENTER FLOOR PLAN

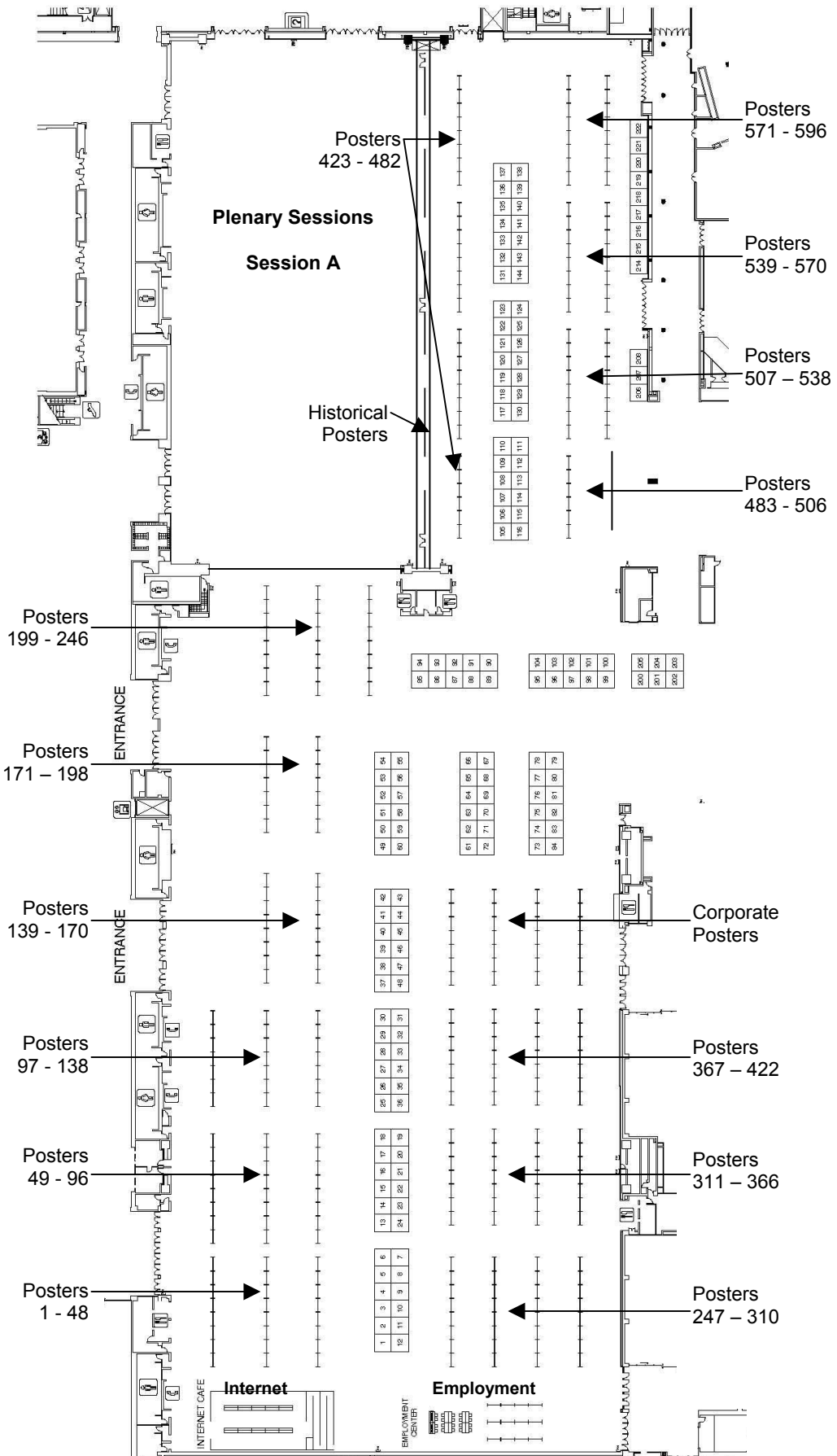
LOBBY LEVEL



LEVEL TWO



**POSTERS AND EXHIBITS**



**ASMS CORPORATE MEMBERS**

<b>COMPANY</b>	<b>BOOTH/POSTER/LIBRARY</b>	<b>MARRIOTT HOTEL</b>	<b>WESTIN HOTEL</b>
AAAS/ Science .....	125		
AAPS .....	38		
Advanced Chemistry Development.....	36		Cabinet
Advantage Business Media .....	Library		
Advion.....	91	Marriott Ballroom 7	
Agilent Technologies .....	85/Poster		Grand IV
AIM Research Co.....	56		
Alcatel Vacuum Products, Inc.....	84		
Alcott Chromatography, Inc.....	79		
Alfa Wassermann Proteomic Tech.			
Alturas Analytics, Inc.....	35		
Analogix, Inc.....	33		
Analytica of Branford.....	69		
Analytical Sales & Services .....	21		
AnaSpec, Inc. ....	2		
Applied Biosystems/MDS Sciex .....	66		Grand V
Applied Kilovolts .....	104/Poster		
Ardara Technologies L.P.....	70		
BASi.....	88		
BD.....	31		
Beckman Coulter, Inc.....	16	Marriott Ballroom 10	
BioAnalyte, Inc .....	134		
Biocatalytics.....	126		
Bioinformatics Solutions Inc.....	86		
BioInquire, LLC.....	Poster		
Biophotonics International .....	98		
Bio-Rad.....	34		
Bioreclamation.....	71		
Biotage .....	111		
BioTrove .....	217		
BOC Edwards .....	215		
Brandenburg.....	Poster		
Bruker Daltonics .....	55	Marriott Ballroom 1-4	
BURLE, PHOTONIS Group.....	80		
Caliper Life Sciences .....	201		
Cambridge Isotope Laboratories .....	105		
Cameca.....	Poster		
Canadian Life Science.....	52		
Cantest Ltd. ....	141		
CEM Corporation .....	100/Poster		
Cerno Bioscience .....	138		
Chem-Space Associates .....	Library		
ChemSW, Inc .....	Poster		
Cohesive Technologies, Inc .....	57		
CovalX .....	97		
Covance.....	144		
Covaris, Inc. ....	19		
CSS Analytical Co., Inc. ....	123		
Detector Technology, Inc.....	Poster		
Dionex Corporation.....	67/Poster	Marriott Ballroom 8	
domnick hunter.....	99		
Eksigent Technologies .....	116		Capitol I
Elsevier .....	Library		
EMD Biosciences.....	124		
Enthalpy Analytical, Inc.....	5		
ETP Electron Multipliers.....	Poster		
Expression Pathology, Inc.....	203		
Extrel CMS .....	59		
FLUORotechnics Pty Ltd.....	4		
GBC Scientific Equipment.....	11		
GE Healthcare .....	7		
Genedata, Inc.....	6	Santa Fe	
Geneva Bioinformatics (Genebio) SA.....	90/Poster		

**ASMS CORPORATE MEMBERS**

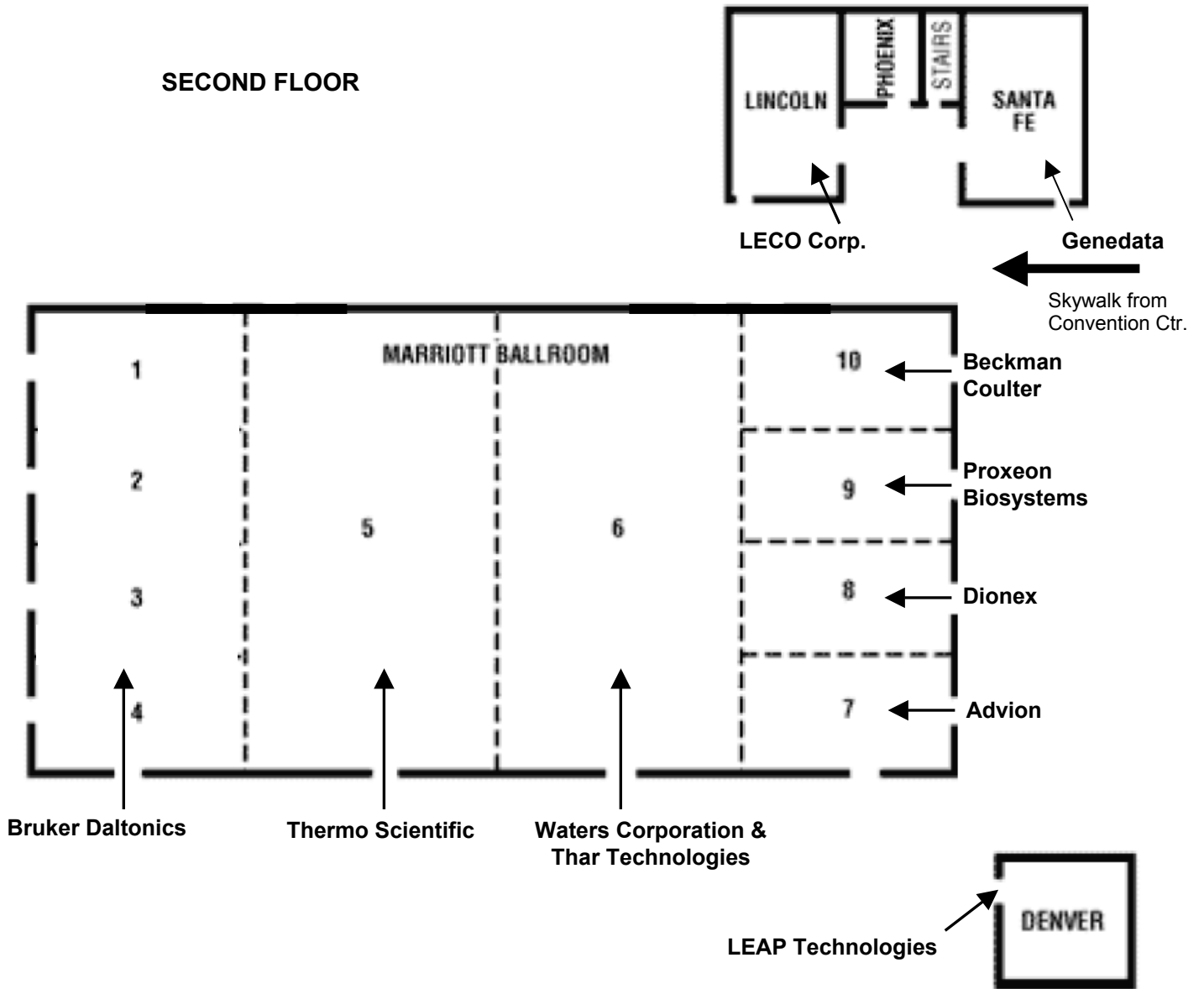
<b>COMPANY</b>	<b>BOOTH/POSTER/LIBRARY</b>	<b>MARRIOTT HOTEL</b>	<b>WESTIN HOTEL</b>
Genevac, Inc.....	1		
Genologies.....	60		
Genome Web, LLC.....	14		
Genomic Solutions Inc.....	96		House
GenTech Scientific Inc.....	18		
GenWay Biotech, Inc.....	216		
Gerstel, Inc.....	92		
GL Sciences.....	118		
Glygen Corp.....	77/Poster		
Grace Davison Discovery Sciences.....	9		
Griffin Analytical Technologies.....	28/Poster		Congress I
Hamamatsu Corporation.....	127		
Harvard Apparatus.....	17		
Hitachi High Technologies, Inc.....	37/Poster		Grand III
Honeywell Burdick & Johnson.....	218		
Hudson Surface Technology.....	Poster		
IDEX Health & Science.....	15		
ILE, Inc.....	222		
Indigo Biosystems, Inc.....	29		Senate I
Institute for Systems Biology.....	133		
Int'l Equipment Trading Ltd.....	51		
Invitrogen.....	Poster		
Ion Signature Technology.....	129		
Ionicon Analytik.....	25		
Ionics Mass Spectrometry Grp.....	103		
IonSense, Inc.....	45		
ION-TOF USA, Inc.....			
ITT.....	62		
Jasco Inc.....	13		
JEOL USA, Inc.....	41		
John Wiley and Sons.....	8		
KD Scientific.....	208		
Lab Manager Magazine.....	Library		
Labcyte.....	143		
LabKey Software, LLC.....	205		Caucus
LEAP Technologies.....	78	Denver	
LECO Corporation.....	22/Poster	Lincoln	
Lhasa Limited.....	112/Poster		
Linden CMS.....	122		
M&M Mass Spec Consulting.....	102		
Mac-Mod Analytical, Inc.....	107		
MassTech.....	221		Council
Matrix Science Ltd.....	30		
Maze, Inc.....	Poster		
McKinley Scientific, LLC.....	87		
Metablon, Inc.....	20		
Michrom.....	73		
Monarch LifeSciences.....	89		
mSPEC Group.....	93		
Nanoxis.....	44/Poster		
NCBI.....	24		
Nest Group, The.....	Poster		
New Objective, Inc.....	53		Congress II
NIST.....	Poster		
Novatia, LLC.....	58/Poster		
Oerlikon Leybold Vacuum.....	12		
Omni Enclosures.....	49/Poster		
Omni International.....	109/Poster		
Optimize Technologies, Inc.....	27		
Orochem Technologies Inc.....	68		

**ASMS CORPORATE MEMBERS**

<b>COMPANY</b>	<b>BOOTH/POSTER/LIBRARY</b>	<b>MARRIOTT SUITE</b>	<b>WESTIN SUITE</b>
Parker Hannifin	219		
Passat, Inc.	75		
PEAK Scientific Instruments	113		
PerkinElmer LAS	106/Poster		
Pfeiffer Vacuum	74/Poster		
PharmOptima	202		
Phenomenex	101		
Phoenix S and T, Inc	47		
Phytronix Technologies	61		
Picometrics	200		
Precision Instruments	64/Poster		
Primer Analytical Solutions	140		
Princeton Separations	139		
Prosolia	72		
Prospect Biosystems	3/Poster		
Protea Biosciences, Inc.	26		
Protein Discovery, Inc.	39/Poster		
Protein Forest, Inc.	135/Poster		
Proteome Software, Inc	131		
Proxeon Biosystems	137	Marriott Ballroom 9	
Qiagen Inc	Poster		Senate II
Receptors, LLC	204		
Reifycs Inc.	10		
Resolution Analytical Systems	130/Poster		
Restek Corp	83		
Rosetta Biosoftware	42		Grand I
Russell Publishing L.L.C	Library		
Sage-N Research, Inc.	43		
Scientific Instrument Services	121		
Scientific Systems, Inc.	206		
Seahorse Labware	142		
Select Science, Ltd	120		
Sepax Technologies, Inc.	119		
Sequant AB	136		
SGE, Inc.	50		
Shimadzu Biotech	94/Poster		Capitol II
Sierra Analytics, Inc.	114		
Sigma-Aldrich	65		Chamber
Signal Recovery	81		
Spark Holland	76		Cameral
Spectra Stable Isotopes	Poster		
SpectralWorks Ltd.	108/Poster		
Spectroscopy Magazine	40		
Spellman High Voltage	110		
Stillwater Scientific Instruments	Poster		
SunChrom GmbH	220		
Supelco	23		
Syagen Technology, Inc.	117/Poster		
Thar Technologies		Marriott Ballroom 6	
Thermo Scientific	54	Marriott Ballroom 5	
Tomtec, Inc	46		
Torion Technologies, Inc.	82/Poster		
Tosoh Bioscience LLC	128/Poster		
TSI Incorporated	32		
UVic Genome BC Proteomics Ctr	207		
Varian, Inc.	48/Poster		Grand II
VRS	132		
Waters Corporation	95/Poster	Marriott Ballroom 6	
Yamato Scientific Co, Ltd.	63		
York Bioanalytical Solutions	115		
ZefSci	214		

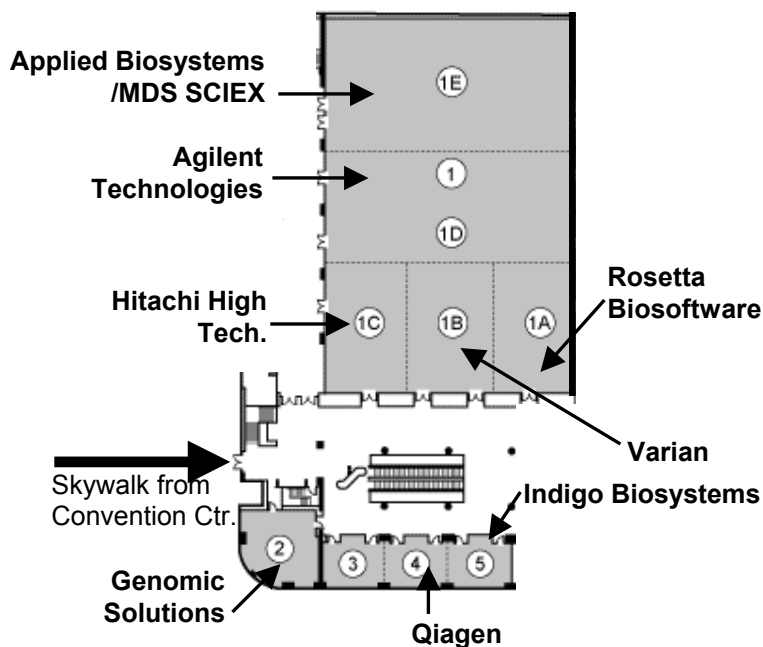
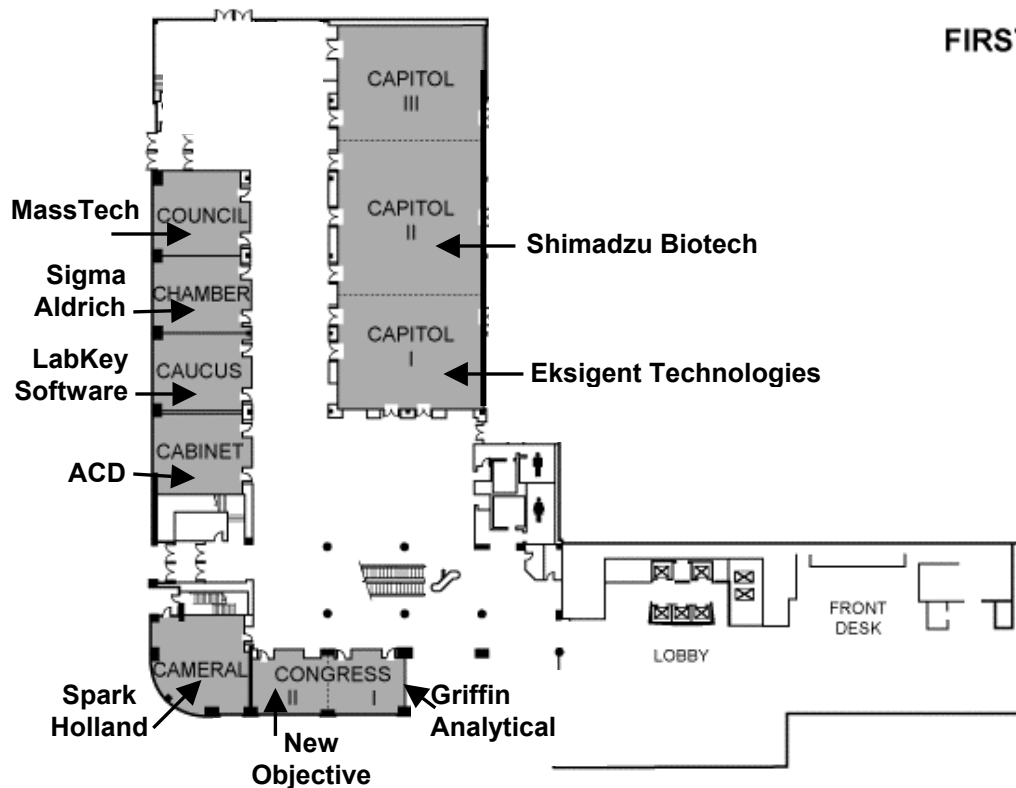
MARRIOTT HOTEL HOSPITALITY SUITES

SECOND FLOOR



WESTIN HOTEL HOSPITALITY SUITES

FIRST FLOOR



- 1. GRAND BALLROOM
- 1A. GRAND 1
- 1B. GRAND 2
- 1C. GRAND 3
- 1D. GRAND 4
- 1E. GRAND 5
- 1F. GRAND FOYER 1 - 3
- 1G. GRAND FOYER 4
- 2. HOUSE
- 3. SENATE 3
- 4. SENATE 2
- 5. SENATE 1

SECOND FLOOR

## PROGRAM ACKNOWLEDGEMENTS

Gary L. Glish, *Vice President for Programs*

### STUDENT ASSISTANTS

Graduate students are assisting with all aspects of the conference, including registration, oral and poster sessions, and the employment center. The students each receive a stipend to assist with their conference expenses. Elsevier Science has generously underwritten the stipends.

### PROGRAM COMMITTEE

---

Roland Annan	Leesa Deterding	Ron Orlando
Dave Black	Adam Hawkridge	Carol Parker
Kevin Blackburn	Lin He	Ali Racine
Mark Bolgar	Hee-Yong Kim	Josh Sharp
Dave Burinsky	Richard King	Jim Stephenson
Ileana Cristea	John Lennon	Ken Tomer
Matt Crowe	Ken Lewis	Tim Veenstra
Connell Cunningham	Arthur Moseley	Bethanne Warrack
Allison Danell	Dave Muddiman	Jason Williams
<b>Ryan Danell</b>	<b>Steve Musser</b>	Jon Williams

### SESSION CHAIRS

---

Mehran Alaei	Glen Jackson	Mary Rodgers
Perdita Barran	Jonathan Josephs	Ryan Rodgers
Ian Blair	Ryan Julian	Victor Ryzhov
Christoph Borchers	Neil Kelleher	R. Tim Short
Nadja Cech	Dave Koppenaal	Michael Siu
Pierre Chaurand	Steve Lammert	Alexandre Shvartsburg
Josh Coon	Julia Laskin	Pierre Thibault
Ileana Cristea	Julie Leary	Richard Vachet
Paul D'Agostino	Mike Leavel	Gary Van Berkel
Ryan Danell	Liang Li	Richard van Breemen
Heather Desaire	Mike MacCoss	Sarah Trimpin
John Engen	John McLean	Bethanne Warrack
Werner Ens	David Millington	Yinsheng Wang
John Eyler	Lambert Ngoka	Chrys Wesdemiotis
David Fenyó	Marshall Pope	Jon Williams
Simon Gaskell	Ragu Ramanathan	Tracie Williams
Kicki Hakansson	Gavin Reid	Amina Woods
Panos Hatsis	Susan Richardson	Nate Yates
Bob Hettich		Al Yergey

### WORKSHOP AND INTEREST GROUP MEETING ORGANIZERS

---

Bradlet Ackermann	Michael A. Freitas	David Peake
Mehran Alaei	Russell Grant	John C. Poutsma
Mark A. Arnould	Herbert H. Hill	Ragulan Ramanathan
Ben Bolanos	Gérard Hopfgartner	Gavin E. Reid
Edward Castellana	Jonathan L. Josephs	Ryan P. Rodgers
Donald H. Chace	Ryan Julian	Indarpal Singh
Anthony Craig	Viswanatham Katta	Dennis Swijter
Brian Eckenrode	Grace O'Maille	Yury O. Tsybin
John Engen	Kermit Murray	Jeffrey L. Whitney
	Steven Patrie	



**CONFERENCE PROGRAM OVERVIEW**

<b>SAT</b>	9:00 am - 4:30 pm	<b>SHORT COURSES</b>
	2:00 - 5:00 pm	<b>REGISTRATION</b>
<b>SUNDAY</b>	9:00 am - 4:30 pm	<b>SHORT COURSES</b>
	10:00 am - 8:00 pm	<b>REGISTRATION</b>
	5:00 - 6:30 pm	<b>TUTORIAL LECTURES; Exhibit Hall D</b> <ul style="list-style-type: none"> <li>• Why You Can't Patent Ions (or Can You?) <b>Michael R. Asam</b>; <i>Fish &amp; Richardson Attorneys at Law</i></li> <li>• Turning Mass Spectrometers into Chemical Reactors: Taking Full Advantage of Ion Chemistry; <b>Scott Gronert</b>; <i>Virginia Commonwealth University</i></li> </ul>
	7:00 - 9:00 pm	<b>RECEPTION IN THE EXHIBIT HALL</b>
<b>MONDAY</b>	7:30 - 8:00 am	<b>WAKE-UP COFFEE</b>
	8:00 - 9:00 am	<b>OPENING and PLENARY LECTURE: Eugenie C. Scott</b> ; <i>National Center for Science Education</i> Lessons from the Dover Trial: Science, Culture, and the Law <i>Exhibit Hall D</i>
	9:15 - 11:15 am	<b>ORAL SESSIONS</b> <ul style="list-style-type: none"> <li>• MOA: Proteins: MS Based Quantitation; <i>Exhibit Hall D</i></li> <li>• MOB: Determining Less Common PTMs by Mass Spectrometry; <i>Wabash Ballroom, lobby level</i></li> <li>• MOC: Lipid Mass Spectrometry; <i>Room 120-124, lobby level</i></li> <li>• MOD: Increasing MS Throughput in Pharmaceutical Bioanalysis; <i>500 Ballroom, lobby level</i></li> <li>• MOE: ESI in the Year of John Fenn's 90<sup>th</sup> Birthday; <i>Sagamore 5-6-7, level two</i></li> <li>• MOF: Developments in Imaging Mass Spectrometry; <i>Sagamore 3-4, level two</i></li> <li>• MOG: Using Mass Spectrometry to Study the Role of Metal Ions in Biology; <i>Sagamore 1-2, level two</i></li> </ul>
	11:15 am - 3:30 pm	<b>POSTER SESSION AND EXHIBITS</b>
	12:45 - 2:00 pm	<b>INTEREST GROUP MEETINGS.</b> See schedule on page 18.
	3:30 - 5:30 pm	<b>ORAL SESSIONS</b> <ul style="list-style-type: none"> <li>• MOA: Proteins: MS Based Quantitation; <i>Exhibit Hall D</i></li> <li>• MOB: Characterizing Cross-Linked Proteins with Mass Spectrometry; <i>Wabash Ballroom, lobby level</i></li> <li>• MOC: Golden Era of Environmental Mass Spectrometry; <i>Room 120-124, lobby level</i></li> <li>• MOD: Endogenous Metabolite Profiling; <i>500 Ballroom, lobby level</i></li> <li>• MOE: Molecular Recognition and Supramolecular Gas Phase Ion Chemistry; <i>Sagamore 5-6-7</i></li> <li>• MOF: Developments in Ion Trap Mass Spectrometry; <i>Sagamore 3-4, level two</i></li> <li>• MOG: Challenges in Polymer Mass Spectrometric Analysis; <i>Sagamore 1-2, level two</i></li> </ul>
	5:45 - 7:00 pm	<b>WORKSHOPS.</b> See schedule on page 18.
<b>TUESDAY</b>	7:30 - 8:15 am	<b>WAKE-UP COFFEE</b>
	8:15 - 10:15 am	<b>ORAL SESSIONS</b> <ul style="list-style-type: none"> <li>• TOA: MS Determination of Biomarkers for Drug Safety and Efficacy, <i>Exhibit Hall D</i></li> <li>• TOB: ETD v. ECD; <i>Wabash Ballroom, lobby level</i></li> <li>• TOC: Mass Spectrometry Analysis of DNA Adducts; <i>Room 120-124, lobby level</i></li> <li>• TOD: Protein Protein Interactions; <i>500 Ballroom, lobby level</i></li> <li>• TOE: LC-MALDI Mass Spectrometry; <i>Sagamore 5-6-7, level two</i></li> <li>• TOF: Developments in TOF Mass Spectrometry Instrumentation; <i>Sagamore 3-4, level two</i></li> <li>• TOG: Hydrocarbon Analysis via Mass Spectrometry; <i>Sagamore 1-2, level two</i></li> </ul>
	10:15 am - 2:30 pm	<b>POSTER SESSION AND EXHIBITS</b>
	12:45 - 2:00 pm	<b>INTEREST GROUP MEETINGS.</b> See schedule on page 18.
	2:30 - 4:30 pm	<b>ORAL SESSIONS</b> <ul style="list-style-type: none"> <li>• TOA: Dynamic Range in Mass Spectrometry-Based Proteomics Measurements, <i>Exhibit Hall D</i></li> <li>• TOB: Mass Spectrometry Evaluation of Biomarkers; <i>Wabash Ballroom, lobby level</i></li> <li>• TOC: Mass Spectrometry Imaging—Small Molecules; <i>Room 120-124, lobby level</i></li> <li>• TOD: Hyphenated Mass Spectrometry Techniques in Metabolite Analysis; <i>500 Ballroom</i></li> <li>• TOE: Ion Trap Applications; <i>Sagamore 5-6-7, level two</i></li> <li>• TOF: Ambient Ionization Mass Spectrometry; <i>Sagamore 3-4, level two</i></li> <li>• TOG: Mass Spectrometry and Homeland Security; <i>Sagamore 1-2, level two</i></li> </ul>
	4:45 - 5:30 pm	<b>AWARD LECTURE: Recipient of the Award for a Distinguished Contribution in Mass Spectrometry; Exhibit Hall D</b>
5:45 - 7:00 pm	<b>WORKSHOPS.</b> See schedule on page 18.	

**CONFERENCE PROGRAM OVERVIEW**

<b>WEDNESDAY</b>	7:30 - 8:15 am	<b>WAKE-UP COFFEE</b>
	8:15 - 10:15 am	<b>ORAL SESSIONS</b> <ul style="list-style-type: none"> <li>• WOA: Top Down 2007: Tandem Mass Spectrometry Above 5 kDa; <i>Exhibit Hall D</i></li> <li>• WOB: Carbohydrate Structural Analysis: MS<sup>n</sup> vs. ECD/EDD; <i>Wabash Ballroom, lobby level</i></li> <li>• WOC: MS Characterization of Biomolecule 3D Structure; <i>Room 120-124, lobby level</i></li> <li>• WOD: Metabolite Identification using Mass Spectrometry; <i>500 Ballroom, lobby level</i></li> <li>• WOE: ESI of Small Molecules; <i>Sagamore 5-6-7, level two</i></li> <li>• WOF: Portable Mass Spectrometry Instruments; <i>Sagamore 3-4, level two</i></li> <li>• WOG: Metal Ion Activated Dissociation; <i>Sagamore 1-2, level two</i></li> </ul>
	10:15 am - 2:30 pm	<b>POSTER SESSION AND EXHIBITS</b>
	12:45 - 2:00 pm	<b>INTEREST GROUP MEETING and WORKSHOP.</b> See schedule on page 18.
	2:30 - 4:30 pm	<b>ORAL SESSIONS</b> <ul style="list-style-type: none"> <li>• WOA: Discovering Peptides and Proteins as Biomarkers; <i>Exhibit Hall D</i></li> <li>• WOB: Metabolite Identification: Beyond Drug Discovery; <i>Wabash Ballroom, lobby level</i></li> <li>• WOC: Characterizing Biopolymer Conformations and Dynamics; <i>Room 120-124, lobby level</i></li> <li>• WOD: Mass Spectrometry Characterization of Membrane Proteins; <i>500 Ballroom, lobby level</i></li> <li>• WOE: Peptide Ion Fragmentation Mechanisms: CID and ECD <i>Sagamore 5-6-7, level two</i></li> <li>• WOF: Novel Mass Spectrometry Instrumentation; <i>Sagamore 3-4, level two</i></li> <li>• WOG: Mass Spectrometry in Elemental &amp; Metallomic Analyses; <i>Sagamore 1-2, level two</i></li> </ul>
	4:45 - 5:30 pm	<b>AWARD LECTURE: Recipient of the Biemann Medal</b>
	5:30 - 6:00 pm	<b>ASMS BUSINESS MEETING; Exhibit Hall D</b> <b>Wine, Beer, Raffle (nano I-Pod, noise dampening headphones, mini digital camera)</b>

<b>THURSDAY</b>	7:30 - 8:15 am	<b>WAKE UP COFFEE</b>
	8:15 - 10:15 am	<b>ORAL SESSIONS</b> <ul style="list-style-type: none"> <li>• ThOA: MS Strategies in the Determination of Phosphorylation Sites; <i>Exhibit Hall D</i></li> <li>• ThOB: New Advances in Clinical MS; <i>Wabash Ballroom, lobby level</i></li> <li>• ThOC: Noncovalent Interactions; <i>Room 120-124, lobby level</i></li> <li>• ThOD: Analysis of Reactive Metabolites by Mass Spectrometry; <i>500 Ballroom, lobby level</i></li> <li>• ThOE: Ion Mobility Spectrometry: New Developments in Bioanalytical Applications; <i>Sagamore 5-6-7</i></li> <li>• ThOF: FTMS Instrumentation; <i>Sagamore 3-4, level two</i></li> <li>• ThOG: Characterizing Emerging Environmental Contaminants with MS; <i>Sagamore 1-2, level two</i></li> </ul>
	10:15 am - 2:30 pm	<b>POSTER SESSION AND EXHIBITS</b>
	2:30 - 4:30 pm	<b>ORAL SESSIONS</b> <ul style="list-style-type: none"> <li>• ThOA: MS in the Determination of Cellular Pathways; <i>Exhibit Hall D</i></li> <li>• ThOB: Bioinformatic Advances for Mass Spectrometry; <i>Wabash Ballroom, lobby level</i></li> <li>• ThOC: Clinical Assays with Mass Spectrometry; <i>Room 120-124, lobby level</i></li> <li>• ThOD: Profiling Drug Metabolites by Mass Spectrometry; <i>500 Ballroom, lobby level</i></li> <li>• ThOE: Mass Spectrometry of Oxidized Proteins; <i>Sagamore 5-6-7, level two</i></li> <li>• ThOF: Ion Mobility Instrumentation; <i>Sagamore 3-4, level two</i></li> <li>• ThOG: Ion Structures Determined by Mass Spectrometry; <i>Sagamore 1-2, level two</i></li> </ul>
	4:45 - 5:30 pm	<b>PLENARY LECTURE: Samuel Gandy, Farber Institute for Neurosciences</b> Regulation of Sorting and Processing of the Alzheimer's Amyloid-Beta Precursor Protein <i>Exhibit Hall D</i>
	5:30 - 8:00 pm	<b>GALA RECEPTION: Westin Hotel</b>

## INTEREST GROUP MEETINGS

Interest Group meetings are informal and open to all.

<b>MONDAY</b> 12:45 – 2:00 pm	<b>TUESDAY</b> 12:45 – 2:00 pm	<b>WEDNESDAY</b> 12:45 – 2:00 pm
<b>Biological Macromolecules Interest Group Meeting</b> Viswanatham Katta, presiding <i>Room 105, lobby level</i>	<b>Forensics Interest Group Meeting</b> Brian Eckenrode, presiding <i>Room 105, lobby level</i>	<b>Clinical Chemistry Interest Group Meeting</b> Donald H. Chace, presiding <i>Room 105, lobby level</i>
<b>Young Mass Spectrometrists Interest Group Meeting: Perspectives on Mass Spectrometry in Industry</b> Steven Patrie, presiding <i>Room 107-108, lobby level</i>	<b>Ion Mobility Interest Group Meeting</b> Herbert H. Hill, presiding <i>Room 104, lobby level</i>	<b>Special Workshop for JASMS Authors and Reviewers</b> Michael Gross, presiding <i>Room 104, lobby level</i>
<b>Polymeric Materials Interest Group Meeting;</b> Mark A. Arnould, presiding <i>Room 116, lobby level</i>	<b>Fundamentals Interest Group Meeting</b> J. C. Poutsma, presiding <i>Room 116, lobby level</i>	
<b>FTMS Interest Group Meeting Orbitrap vs High Field ICR FTMS: Top-Down Challenges, ECD and ETD</b> Yury O. Tsybin and Michael A. Freitas, presiding; <i>Room 101-102, lobby level</i>	<b>Flavors, Fragrance and Foodstuff Interest Group Meeting</b> Indarpal Singh and Dennis Swijter, presiding; <i>Room 101-102, lobby level</i>	
<b>Analytical Lab Managers Interest Group Meeting;</b> Amy Harms, presiding <i>Room 104, lobby level</i>	<b>Hydrocarbon and Chemical Process Interest Group Meeting</b> Ryan Rodgers, presiding; <i>Room 103</i>	

## WORKSHOPS

Workshops are organized on topics of special interest with a focus on new technology. There is no additional charge for workshops – they are open to all as a forum for discussion.

<b>MONDAY</b> 5:45 – 7:00 pm	<b>TUESDAY</b> 5:45 – 7:00 pm
<b>Does LC Still Match the Improvements Made in Mass Spectrometry?</b> Arranged by LC/MS Interest Group. Gérard Hopfgartner, presiding <i>Wabash, lobby level</i>	<b>The Pros and Cons of MS Outsourcing Strategies in the Pharmaceutical Industry.</b> Arranged by Pharmaceuticals Interest Group. David Peake and Bradley Ackermann, presiding <i>Wabash, lobby level</i>
<b>Driving Decisions with ADME Screening.</b> Arranged by Drug Metabolism Interest Group Ragu Ramanathan and Jonathan Josephs, presiding <i>Room 120-124, lobby level</i>	<b>Back to the Future: The Ion Trap MS as a Versatile Ion Storage and Manipulation Device.</b> Arranged by Ion Trap MS Interest Group. Gavin E. Reid, presiding <i>Room 120-124, lobby level</i>
<b>LC/MS Library for Environmental Contaminants.</b> Arranged by Environmental Interest Group Mehran Alaei, presiding; <i>500 Ballroom, lobby level</i>	<b>Dealing with the Data: Chekmometrics and Data Visualization Approaches.</b> Arranged by Computer Applications Interest Group. Jeffrey Whitney, presiding; <i>500 Ballroom, lobby level</i>
<b>Opportunity to Get Answers to Your Questions about Prosecuting Patents and Creating IP Value.</b> Anthony Craig, presiding <i>Sagamore 5-6-7, level two</i>	<b>Challenges in Theoretical and Computational Gas-Phase Ion Chemistry.</b> Arranged by Fundamentals Interest Group J. C. Poutsma and Ryan Julian, presiding <i>Sagamore 5-6-7, level two</i>
<b>Ion Mobility Spectrometry: TOF, RF or TW.</b> Arranged by Ion Mobility Interest Group. Herbert H. Hill, presiding <i>Sagamore 3-4, level two</i>	<b>Tips and Tricks in Hydrogen Exchange and Covalent Labeling.</b> Arranged by H/D Exchange Interest Group. John Engen, presiding; <i>Sagamore 3-4, level two</i>
<b>IR Lasers for MALDI.</b> Kermit Murray, presiding <i>Room 105-106, lobby level</i>	<b>Considerations for Utilizing Mass Spectrometry in Clinical Laboratory Practice.</b> Arranged by Clinical Chemistry Interest Group. Donald A. Chace and Russell Grant, presiding <i>Sagamore 1-2, level two</i>
<b>Challenges in Forensic Analysis.</b> Arranged by Forensics Interest Group. Brian Eckenrode, presiding; <i>Sagamore 1-2, level two</i>	<b>Nanomaterials in MS.</b> Edward T. Castellana, presiding <i>Room 105-106, lobby level</i>
	<b>Metabolomics: Technologies and Challenges.</b> Arranged by Metabolomics Interest Group. Grace O'Maille and Ben Bolanos, presiding; <i>Room 104, lobby level</i>

## MONDAY POSTER TOPICS

7:30 – 8:00 am..... Set up Monday posters (page 42)  
11:15 – 3:30 pm ..... All Monday poster authors present  
11:45 am – 12:15 pm ..... Lunch break for odd-numbered posters  
12:15 – 12:45 pm ..... Lunch break for even-numbered posters  
7:30 – 8:00 pm ..... Remove all Monday posters

**Please do not remove posters early.**

Special Posters .....	001 - 003
Ambient Ionization I .....	004 - 020
Ionization Mechanisms .....	021 - 033
Instrumentation: New Concepts I.....	034 - 049
Instrumentation: FTMS .....	050 - 072
Instrumentation: TOF .....	073 - 089
Ion Activation / Dissociation.....	090 - 101
Ion Structures / Energetics I .....	102 - 119
Peptides: Fragmentation & Sequencing I.....	120 - 133
Hydrocarbon and Petrochemical .....	134 - 150
LC/MS.....	151 - 169
Bioinformatics: Search Engines & Algorithms .....	170 - 199
Carbohydrates and Oligosaccharides I.....	200 - 212
Clinical Chemistry .....	213 - 232
Drug Metabolism: Pharmacokinetics .....	233 - 243
Drugs and Their Metabolites: Profiling.....	244 - 254
Drugs: Quantitation .....	255 - 267
Metabolites (Endogenous): Quantitative .....	268 - 280
Metabolomics: Applications.....	281 - 300
Small Molecules in Biological Matrix.....	301 - 314
Microbial Analysis I.....	315 - 329
Immunology .....	330 - 341
Toxicology .....	342 - 360
Neuropeptides .....	361 - 372
Peptides: General .....	373 - 386
Peptides: Post Translational Modifications I.....	387 - 404
Peptides: Quantitation .....	405 - 422
Proteomics Quantitative: Stable Isotope Labeling.....	423 - 431
Proteomics: Phosphorylation.....	432 - 446
Proteins: Modified I .....	447 - 463
Proteomics: Membrane .....	464 - 473
Protein: Conformation I .....	474 - 498
Proteomics: Biomarkers I.....	499 - 528
Proteomics: Medical I .....	529 - 549
Proteomics: New and Improved Methods I.....	550 - 577
Proteomics: Sample Preparation and Methods I (Biofluids).....	578 - 589

## TUESDAY POSTER TOPICS

7:30 – 8:00 am ..... Set up Tuesday posters (Page 69)  
10:15 am – 2:30 pm ..... All Tuesday poster authors present  
11:45 am – 12:15 pm ..... Lunch break for odd-numbered posters  
12:15 – 12:45 pm ..... Lunch break for even-numbered posters  
7:30 – 8:00 pm ..... Remove all Tuesday posters

**Please do not remove posters early.**

Instrumentation: Ion Sources I.....	004 - 021
Instrumentation: New Concepts II .....	022 - 040
Ion Mobility Applications.....	041 - 058
Ion Molecule Reactions .....	059 - 072
Peptides: Fragmentation and Sequencing II.....	073 - 089
Environmental Analysis: Water .....	090 - 104
Polymers .....	105 - 131
LC/MS .....	132 - 146
Bioinformatics .....	147 - 177
Lipids: Structural Analysis.....	178 - 190
Carbohydrates and Oligosaccharides II.....	191 - 211
Metabolites (Endogenous): Targeted Analysis .....	212 - 223
Drug Metabolism: High Throughput.....	224 - 237
Drugs: Quantitation by LC/MS.....	238 - 251
Small Molecules: Pharma Focus .....	252 - 266
Peptides: Post Translational Modifications II .....	267 - 284
Imaging Applications: Proteomics .....	285 - 299
Proteomics Quantitative: Stable Isotope Labeling II.....	300 - 309
Proteomics: Label Free Quantitation.....	310 - 316
Proteomics: Quantitation.....	317 - 324
Protein Conformation II.....	325 - 349
Proteins: General.....	350 - 371
Proteins: Glycoproteins I .....	372 - 396
Proteins: Modified II.....	397 - 415
Proteins: Recombinant .....	416 - 433
Proteomics: Biomarkers II .....	434 - 463
Proteomics: Fundamental Studies .....	464 - 481
Proteomics: Fundamental Technique Comparison.....	482 - 492
Proteomics: New and Improved Methods II .....	493 - 514
Proteomics: Phosphorylation .....	515 - 526
Proteomics: Lower Organisms.....	527 - 546
Proteomics: Medical II.....	547 - 565
Proteomics: Sample Preparation and Methods (Non-Gel Based) .....	566 - 583

### WEDNESDAY POSTER TOPICS

7:30 – 8:00 am.....Set up Wednesday posters (Page 95)  
10:15 am – 2:30 pm..... All Wednesday poster authors present  
11:45 am – 12:15 pm..... Lunch break for odd-numbered posters  
12:15 – 12:45 pm ..... Lunch break for even-numbered posters  
7:30 – 8:00 pm .....Remove all Wednesday posters

**Please do not remove posters early.**

Ambient Ionization II.....	004 - 022
Ionization Mechanisms .....	023 - 035
MALDI Sample Preparation I.....	036 - 051
Imaging: Instrumentation .....	052 - 080
Instrumentation: Quadrupoles and Ion Traps I.....	081 - 096
Ion Mobility: Instrumentation and Methods.....	097 - 108
Ion Molecule Reactions.....	109 - 123
Ion Structures / Energetics II.....	124 - 141
Non-Covalent Complexes .....	142 - 166
LC/MS.....	167 - 181
LC/MS Sample Preparation.....	182 - 192
Microscale Separations .....	193 - 204
Environmental Analysis: Methods .....	205 - 227
Forensics .....	228 - 245
High Throughput Analysis / Robotics I.....	246 - 257
Bioinformatics: Data Processing.....	258 - 287
Carbohydrates and Oligosaccharides III.....	288 - 302
Clinical Chemistry .....	303 - 319
Drug Metabolism: Quantitation.....	320 - 337
Drug Metabolism: Reactive Metabolites.....	338 - 347
Metabolites (Endogenous): Non-Targeted Analysis.....	348 - 360
Metabolomics: Methods and Procedures.....	361 - 378
Xenobiotics .....	379 - 392
Natural Products I .....	393 - 408
Lipids .....	409 - 422
Microbial Analysis II .....	423 - 437
Nucleic Acids I.....	438 - 454
Proteins: Folding.....	455 - 464
Proteomics: Biochemistry .....	465 - 482
Proteomics: Cancer Biomarkers I.....	483 - 502
Proteomics: New and Improved Methods III .....	503 - 522
Proteomics: Phosphorylation.....	523 - 538
Proteomics: Quantitation Techniques I .....	539 - 556
Quantitation: Methods and Applications.....	557 - 572

### THURSDAY POSTER TOPICS

7:30 – 8:00 am ..... Set up Thursday posters (Page 121)  
10:15 am – 2:30 pm ..... All Thursday poster authors present  
11:45 am – 12:15 pm ..... Lunch break for odd-numbered posters  
12:15 – 12:45 pm ..... Lunch break for even-numbered posters  
3:30 pm ..... Remove all Thursday posters

**Please do not remove posters early.**

APPI.....	004 - 011
Instrumentation: Ion Sources II.....	012 - 028
MALDI Sample Preparation II.....	029 - 044
Instrumentation: Quadrupoles and Ion Traps II .....	045 - 060
Ion Activations Dissociation: Applications.....	061 - 075
Peptides: Fragmentation and Sequencing.....	076 - 091
Imaging: Small Molecules .....	092 - 107
Agriculture .....	108 - 124
Environmental Analysis.....	125 - 141
Homeland Security.....	142 - 159
Computer Applications .....	160 - 173
LC/MS: Nano.....	174 - 187
LC/MS: Sample Preparations: Biological Matrix .....	188 - 212
High Throughput Analysis / Robotics II .....	213 - 228
GCMS.....	229 - 247
Bioinformatics: Miscellaneous.....	248 - 273
Carbohydrates and Oligosaccharides IV .....	274 - 288
Drug Metabolism: Quantitation .....	289 - 306
Lipids: Oxidized Biochemistry and Steroids.....	307 - 324
Nucleic Acids II .....	325 - 339
Natural Products II.....	340 - 353
Small Molecules: General .....	354 - 380
Proteins: Glycoproteins II .....	381 - 402
Proteins: Phosphorylation .....	403 - 421
Proteins: Phospho Proteins.....	422 - 442
Proteins: Membrane Methods .....	443 - 453
Proteomics: Cancer Biomarkers II .....	454 - 472
Proteomics: Labeling & Affinity.....	473 - 485
Proteomics: Lower Organisms.....	486 - 491
Proteomics: Quantitation Techniques II.....	492 - 518 and 533
Proteomics: Biochemistry (Gel Based).....	519 - 532
Proteomics: Sample Preparation and Methods (Gel Based) .....	534 - 544

## SUNDAY, JUNE 3

**5:00 – 6:30 pm**  
**TUTORIAL LECTURES**  
Exhibit Hall D, lobby level

- 5:00 pm** **Why You Can't Patent Ions (or Can You?)**  
**Michael R. Asam;**  
*Fish & Richardson Attorneys at Law*
- 5:45 pm** **Turning Mass Spectrometers into Chemical Reactors: Taking Full Advantage of Ion Chemistry;**  
**Scott Gronert;** *Virginia Commonwealth University*

**7:00 – 9:00 pm**  
**WELCOME RECEPTION**  
Exhibit Hall

*Be sure to view the undergraduate students posters.*

## MONDAY MORNING, JUNE 4

**7:30 – 8:00 am**  
**WAKE UP COFFEE**  
Outside Exhibit Hall D

**8:00 – 8:15 am**  
**CONFERENCE OPENING**  
Exhibit Hall D, lobby level  
**Barabara S. Larsen, President, ASMS**  
**Gary L. Glish, Vice President for Programs, ASMS**

### PRESENTATION OF THE 2007 RESEARCH AWARDS

**Thermo Scientific Research Award**, presented by Ian Jardine to Rebecca Jockusch, *University of Toronto*

**Waters Corporation Research Award**, presented by Lance Nicolaysen to Gavin E. Reid, *Michigan State University*

**Applied Biosystems Research Award**, presented by Arthur E. Simms to Joshua J. Coon, *University of Wisconsin*

**8:15 – 9:00 am**  
**PLENARY LECTURE: Eugenie C. Scott**  
*National Center for Science Education*  
**Lessons from the Dover Trial: Science, Culture, and the Law**

**9:15 - 11:15 am**  
**PROTEINS: MS BASED QUANTITATION**  
**Chair: Nathan Yates**  
Exhibit Hall D

- MOA am 09:15 **Discovery and Quantitation of the Phosphorylation Events that Trigger Human Embryonic Stem Cells to Exit the Pluripotent state;** **Danielle L Swaney**<sup>1</sup>; Scott B. Ficarro<sup>2</sup>; Xuezhong Feng<sup>1</sup>; Victor Ruotti<sup>1</sup>; Ron Stewart<sup>1</sup>; James A. Thomson<sup>1</sup>; Travis Berggren<sup>1</sup>; Joshua J. Coon<sup>1</sup>; <sup>1</sup>*University of Wisconsin, Madison, WI*; <sup>2</sup>*Genomics Institute of the Novartis Research Found., San Diego, CA*
- MOA am 09:35 **Site-Specific Phosphorylation Identification and Quantification of the p21-Activated Kinase 4;** **Christopher M. Adams**<sup>1</sup>; Staffan Strömblad<sup>2</sup>; Roman A. Zubarev<sup>1</sup>; <sup>1</sup>*Uppsala University, Uppsala, SWEDEN*; <sup>2</sup>*Karolinska Institute, Stockholm, Sweden*

MOA am 09:55 **Label-Free Quantitative Proteomics using Data-Independent Acquisition of Tandem Mass Spectrometry Data;** **Gregory Finney**<sup>1</sup>; Michael J Toth<sup>2</sup>; Michael J MacCoss<sup>1</sup>; <sup>1</sup>*University of Washington, Seattle, WA*; <sup>2</sup>*University of Vermont, Burlington, VT*

MOA am 10:15 **Quantification of Proteins from Human Pathogens by Isotope Dilution Mass Spectrometry;** **John R Barr**<sup>1</sup>; Anne E Boyer<sup>1</sup>; Tracie L Williams<sup>1</sup>; Leah G Luna<sup>1</sup>; Lisa G McWilliams<sup>2</sup>; Sara C McGrath<sup>1</sup>; Adrian R Woolfitt<sup>1</sup>; David M Schieltz<sup>1</sup>; Maria I Solano<sup>1</sup>; Suzanne R Kalb<sup>1</sup>; Hercules Moura<sup>1</sup>; Conrad P Quinn<sup>1</sup>; James L Pirkle<sup>1</sup>; <sup>1</sup>*Centers for Disease Control and Prevention, Atlanta, GA*; <sup>2</sup>*Battelle Memorial Institute, Atlanta, GA*

MOA am 10:35 **Multiplexed Quantitation of Proteins and Post-Translational Modifications using iTRAQ on an Orbitrap Mass Spectrometer;** **Marcus Bantscheff;** Markus Boesche; Gavain Sweetman; Bernhard Kuster; *Cellzome AG, Heidelberg, Germany*

MOA am 10:55 **Quantitative Estimation of Trypanosoma Brucei Flagellar Protein Expression Knock-Down Following RNA Interference, using iTRAQ and Tandem Mass Spectrometry;** **Sarah R Hart**<sup>1</sup>; Richard Broadhead<sup>2</sup>; Jennifer Siepen<sup>1</sup>; Neil Swainston<sup>1</sup>; Keith Gull<sup>3</sup>; Simon J Hubbard<sup>1</sup>; Paul J McKean<sup>2</sup>; Simon J Gaskell<sup>1</sup>; <sup>1</sup>*University of Manchester, Manchester, United Kingdom*; <sup>2</sup>*University of Lancaster, Lancaster, United Kingdom*; <sup>3</sup>*University of Oxford, Oxford, United Kingdom*

**9:15 - 11:15 am**  
**DETERMINING LESS COMMON PTMS BY MS**  
**Chair: Kristina Hakansson**  
Wabash Ballroom, lobby level

- MOB am 09:15 **Detection and Function of Diverse Post-Translational Modifications;** **Neil L. Kelleher;** *University of Illinois, Urbana, IL*
- MOB am 09:35 **Pluripotency-Specific Epigenetic Chromatin Methylation Signatures Revealed by Multiple Dissociation Modalities;** **Jacob D. Jaffe**<sup>1</sup>; Alex Meissner<sup>2</sup>; Bradley E. Bernstein<sup>3</sup>; Steven A. Carr<sup>1</sup>; <sup>1</sup>*The Broad Institute of Harvard and MIT, Cambridge, MA*; <sup>2</sup>*Whitehead Institute for Biomedical Research, Cambridge, MA*; <sup>3</sup>*Massachusetts General Hospital, Boston, MA*
- MOB am 09:55 **Enrichment and Characterization of Histone Ubiquitination by Mass Spectrometry;** **Xiaodan Su;** Naduparambil K. Jacob; Ravindra Amunugama; Rick Fishel; Michael A. Freitas; *Ohio State Univ., Columbus, OH*
- MOB am 10:15 **ZIC-HILIC-RP: A Highly Viable Alternative MudPIT Strategy for Comprehensive PTM-Focused Proteomics Studies;** **Paul J Boersema**<sup>1</sup>; Nullin Divecha<sup>2</sup>; Albert JR Heck<sup>1</sup>; Shabaz Mohammed<sup>1</sup>; <sup>1</sup>*Utrecht University, Utrecht, Netherlands*; <sup>2</sup>*The Netherlands Cancer Institute, Amsterdam, Netherlands*

**MONDAY MORNING continued**

**9:15 - 11:15 am**

**DETERMINING LESS COMMON PTMS BY MS continued**

- MOB am 10:35 **A Novel Method for Determination of the Sites of Tyrosine-O-Sulfation in Peptides and Proteins;** Yonghao Yu<sup>1</sup>; Connie Jen<sup>1</sup>; Kevin L. Moore<sup>2</sup>; Julie A. Leary<sup>1</sup>; <sup>1</sup>University of California, Davis, CA; <sup>2</sup>The University of Oklahoma Health Sciences Center, Oklahoma City, OK
- MOB am 10:55 **Characterization of O-sulfated Peptides and Oligosaccharides by Divalent Metal Complexation and Electron Capture Dissociation;** Haichuan Liu; Kristina Hakansson; Department of Chemistry, University of Michigan, Ann Arbor, MI

**9:15 - 11:15 am**

**LIPID MS**

**Chair: Michael Leavell**

Room 120-124, lobby level

- MOC am 09:15 **Identification and Quantification of New Lipids in Neuromelanin Isolated from Human Midbrains;** Weslyn C. Ward<sup>1</sup>; Ziqiang Guan<sup>2</sup>; Fabio A. Zucca<sup>3</sup>; Luigi Zecca<sup>3</sup>; Christian R. H. Raetz<sup>2</sup>; John D. Simon<sup>1</sup>; <sup>1</sup>Duke University, Durham, NC; <sup>2</sup>Duke University Medical Center, Durham, NC; <sup>3</sup>Institute of Biomedical Technologies, Segrate, Italy
- MOC am 09:35 **Quantitation of Fatty Acyl-Coenzyme A Species in Cultured Mammalian Cell Extracts by HPLC-Electrospray Tandem Mass Spectrometry;** Christopher A. Haynes; Ying Liu; Kacee H. Sims; Elaine W. Wang; M. Cameron Sullards; Alfred H. Merrill, Jr.; Georgia Institute of Technology, Atlanta, GA
- MOC am 09:55 **Algorithm for Processing Mass Spectrometric Data to Identify and Quantitate Complex Lipid by Data-Dependent Scanning and Fragment Ion Database Searching;** Haowei Song; Fong-Fu Hsu; Jack Ladenson; John Turk; Washington University School of Medicine, St. Louis, MO
- MOC am 10:15 **Ozone Induced Dissociation (OzID): A Novel Method for On-Line Identification of Double Bond Position within Unsaturated Lipids;** Michael C Thomas; Todd W Mitchell; David G Harman; Stephen J Blanksby; University of Wollongong, Wollongong, Australia
- MOC am 10:35 **Structural Characterization of a Sulfated Metabolite Produced by *stf3* from *Mycobacterium tuberculosis*;** Cynthia Holsclaw<sup>1</sup>; Michael W Schelle<sup>2</sup>; Michael D Leavell<sup>1</sup>; Christopher J Petzold<sup>1</sup>; Sarah Gilmore<sup>2</sup>; Carolyn R Bertozzi<sup>2</sup>; Julie A Leary<sup>1</sup>; <sup>1</sup>University of California, Davis, Davis, CA; <sup>2</sup>University of California, Berkeley, Berkeley, CA
- MOC am 10:55 **Lipidome Profiling and Biomarker Identification of Blood Serum from Breast Cancer Patients;** Guangxiang Wu<sup>1</sup>; Iveta Klouckova<sup>2</sup>; Lacey E. Dobrolecki<sup>3</sup>; Robert J. Hickey<sup>3</sup>; Milos V. Novotny<sup>1</sup>; Yehia Mechref<sup>1</sup>; <sup>1</sup>METACyte Biochemical Analysis Center, Bloomington, IN; <sup>2</sup>Indiana University, Bloomington, IN 47405; <sup>3</sup>Indiana University School of Medicine, Indianapolis, IN

**9:15 - 11:15 am**

**INCREASING MS THROUGHPUT IN PHARMACEUTICAL BIOANALYSIS**

**Chair: Panos Hatsis**

500 Ballroom, lobby level

- MOD am 09:15 **Enhancing PK Throughput in Drug Discovery and Development;** Steve E. Unger; Bristol-Myers-Squibb, Princeton, NJ
- MOD am 09:35 **Not So Fast: A Novel Way to Employ Longer HPLC Separations without Slowing Down Your MS;** Thomas L. Lloyd<sup>1</sup>; Daniel Dean<sup>1</sup>; Sergio Guazzotti<sup>2</sup>; Roberto Barbero<sup>3</sup>; <sup>1</sup>Wyeth, Collegeville, PA; <sup>2</sup>Nanostream, Inc., Pasadena, CA; <sup>3</sup>Biological Engineering Division, MIT, Cambridge, MA
- MOD am 09:55 **The Feasibility of Quantitative MALDI Versus ESI on a Triple Quadrupole Platform for PK Analysis of Drugs;** Dietrich A Volmer<sup>1</sup>; Lekha Sleno<sup>2</sup>; Kevin Bateman<sup>3</sup>; Jay Corr<sup>4</sup>; <sup>1</sup>Medical Research Council, Cambridge, UK; <sup>2</sup>University of Geneva, Geneva, Switzerland; <sup>3</sup>Merck Frosst, Montreal, Canada; <sup>4</sup>MDS Sciex, Concord, Canada
- MOD am 10:15 **Development of an Ultra High Throughput MS/MS CYP Inhibition Assay;** Daniel B. Kassel<sup>1</sup>; Kheng Lim<sup>1</sup>; Can C Ozabal<sup>2</sup>; William A LaMarr<sup>2</sup>; <sup>1</sup>Takeda San Diego, Inc, San Diego, CA; <sup>2</sup>BioTrove, Inc., Woburn, MA
- MOD am 10:35 **Investing High-Throughput to Obtain High Quality in Bioanalysis;** Richard King; Emily Adarayan; Carmen Fernandez-Metzler; Debra McLoughlin; James Yergey; Merck & Company, Inc., West Point, PA
- MOD am 10:55 **Toward Rapid Quantification in a Discovery Pharmaceutical Setting using Online Nanoelectrospray and FAIMS;** Panos Hatsis<sup>1</sup>; Gary Valaskovic<sup>2</sup>; Lee Sawdey<sup>2</sup>; Jing-Tao Wu<sup>1</sup>; <sup>1</sup>Millennium Pharmaceuticals, Cambridge, MA; <sup>2</sup>New Objective, Woburn, MA

**9:15 - 11:15 am**

**ESI IN THE YEAR OF JOHN FENN'S 90<sup>TH</sup> BIRTHDAY**

**Chair: Gary Van Berkel**

Sagamore Ballroom 5-6-7, level 2

- MOE am 09:15 **An Old Dog with a New Trick;** John B. Fenn; Steve Nguyen; Virginia Commonwealth University, Richmond, VA
- MOE am 09:35 **Conformational and Non-Covalent Complexation Changes of Electrosprayed Proteins Induced by Transitions between Spraying Modes;** Peter Nemes; Samita Goyal; Akos Vertes; George Washington University, Washington, DC
- MOE am 09:55 **Toward a Stable Electrospray;** Ioan Marginean; Ryan T. Kelly; Jason S. Page; Keqi Tang; Richard D. Smith; Pacific Northwest National Laboratory, Richland, WA
- MOE am 10:15 **The Role of Mass Spectrometry in Ultrafast X-ray Laser Diffractive Imaging of Electrosprayed Biomolecules, Nanoparticles and Cells;** Mike Bogan; Lawrence Livermore National Laboratory, Livermore, CA
- MOE am 10:35 **Eliminating Ion Losses at Atmospheric Pressure;** Ross C. Willoughby; Edward W. Sheehan; Chem-Space Associates, Pittsburgh, PA

**MONDAY MORNING continued**

**9:15 - 11:15 am  
ESI IN THE YEAR OF JOHN FENN'S 90<sup>TH</sup> BIRTHDAY  
continued**

MOE am 10:55 **Characterization of Ion Generation by a Venturi-Assisted Array of Micromachined Ultrasonic Electrospays;** Facundo Fernandez<sup>1</sup>; Christina Y. Hampton<sup>1</sup>; Thomas P. Forbes<sup>1</sup>; J. Mark Meacham<sup>2</sup>; Robert B. Dixon<sup>3</sup>; Catherine J. Silvestri<sup>1</sup>; David C. Muddiman<sup>3</sup>; F. Levent Degertekin<sup>1</sup>; Andrei G. Fedorov<sup>1</sup>; <sup>1</sup>Georgia Institute of Technology, Atlanta, GA; <sup>2</sup>National Institute of Standards and Technology, Gaithersburg, MD; <sup>3</sup>North Carolina State University, Raleigh, NC

**9:15 - 11:15 am  
DEVELOPMENT IN IMAGING MS  
Chair: Amina S. Woods  
Sagamore Ballroom 3-4, level two**

MOF am 09:15 **Imaging Mass Spectrometry: Ventures in Space and Time;** Richard M. Caprioli; *Vanderbilt Univ Sch of Med, Nashville, TN*

MOF am 09:55 **MALDI-Ion Mobility- $\alpha$ TOFMS Imaging and Profiling of Lipids and Neuropeptides in Rat Brain Tissue;** J. ALBERT Schultz<sup>1</sup>; Michael V Ugarov<sup>1</sup>; Thomas Egan<sup>1</sup>; Denis Langlais<sup>1</sup>; Shelley N. Jackson<sup>2</sup>; Jeremy Post<sup>2</sup>; Hay-Yan J. Wang<sup>2</sup>; Amina S. Woods<sup>2</sup>; <sup>1</sup>Ionwerks Inc., Houston, TX; <sup>2</sup>NIDA IRP, NIH, Baltimore, MD

MOF am 10:15 **Comparison of MALDI-MS Imaging with Laser Capture Microdissected Tissue Confirms the Expression of Specific Proteins in Prostate Cancer Cells;** Lisa H. Cazares; Nicholas P. Schaub; Mary Ann Clements; Savvas E. Mendrinou; Raymond S. Lance; Richard R. Drake; O. John Semmes; *Eastern Virginia Medical School, Norfolk, VA*

MOF am 10:35 **MALDI Direct Analysis and Imaging of Frozen Versus Fpfe Tissues: What Strategy for Which Sample?** Isabelle Fournier; Rémi Lemaire; Maxence Wisztorski; Jonathan Stauber; Olivia Jardin-Mathé; Michel Salzet; *FRE-CNRS 2933, University of Lille I, Villeneuve d'Ascq, France*

MOF am 10:55 **Atmospheric Pressure Infrared MALDI Mass Spectrometry: Imaging and *in vivo* Studies of Metabolites in Plants;** Yue Li; Bindesh Shrestha; Akos Vertes; *George Washington University, Washington, DC*

**9:15 - 11:15 am  
USING MASS SPECTROMETRY TO STUDY  
THE ROLE OF METAL IONS IN BIOLOGY  
Chair: Perdita Barran  
Sagamore Ballroom 1-2, level two**

MOG am 09:15 **Electrospray Ionization Mass Spectrometry of the Interaction of Oligonucleotides with Metals, Small Molecules and Drugs;** Janna Anichina; Diethard K. Bohme; *York University, Department of Chemistry, Toronto, Canada*

MOG am 09:35 **Top-Down Mass Spectrometry of Noncovalent Protein Complexes for Determining Ligand Binding Sites;** Sheng Yin<sup>1</sup>; Vlad Zabrouskov<sup>2</sup>; Joseph A. Loo<sup>1</sup>; <sup>1</sup>UCLA, Los Angeles, CA; <sup>2</sup>Thermo Scientific, San Jose, CA

MOG am 09:55 **Zinc Uptake and Release by Metallothioneins and their Regulators from Bacteria and Plants;** Claudia A Blindauer; Oksana Leszczyszyn; Joanne Palmer; Kowald Gregory; *University of Warwick, Coventry, United Kingdom*

MOG am 10:15 **The Role of Alkali Metals in Helix Stabilization;** Janel R Mclean; John A. McLean; David H. Russell; *Texas A & M University, College Station, TX*

MOG am 10:35 **A Molecular Basis for Enhancing Phytoremediating Plants through Genetic Modification: An Atomic and Molecular MS Study;** Joseph A. Caruso<sup>1</sup>; Kevin Kubachka<sup>1</sup>; Juris Meija<sup>1</sup>; Danika LeDuc<sup>2</sup>; <sup>1</sup>University of Cincinnati, Cincinnati, OH; <sup>2</sup>California State Univ. East Bay, Hayward, CA

MOG am 10:55 **Proteomic Characterization of Spinal Cord Lipid Raft Proteins in ALS;** Jianjun Zhai; Anna-Lena Strom; Zhenyu Huang; Renee Kilty; Priya Venkatakrisnan; Eric Smart; Haining Zhu; *University of Kentucky, Lexington, KY*

**11:15 am – 3:30 pm  
POSTER SESSION AND EXHIBITS  
Exhibit Hall**

7:30 – 8:00 am ..... Set up Monday posters (page 42)  
11:15 – 3:30 pm ..... All Monday poster authors present  
11:45 am – 12:15 pm ..... Lunch break for odd-numbered posters  
12:15 – 12:45 pm ..... Lunch break for even-numbered posters  
7:30 – 8:00 pm ..... Remove all Monday posters

**12:45 – 2:00 pm  
INTEREST GROUP MEETINGS.** See schedule on page 18.

**MONDAY AFTERNOON**

**3:30 – 5:30 pm  
PROTEINS: MS BASED QUANTITATION  
Chair: Victor Ryzhov  
Exhibit Hall D, lobby level**

MOA pm 03:30 **Integration of Asp-Specific Acid Cleavage into Quantitative Proteomics;** Catherine Fenselau; Steven Swatkoski; Olli Laine; Alexey Petrov; Jonathan Dinman; Nathan Edwards; *University of Maryland, College Park, MD*

MOA pm 03:50 **<sup>18</sup>O Labeling as a Tool to Differentiate between Real Interactors and Non-Specifically Binding Proteins in Defining Protein Complexes;** Jeroen A. A. Demmers; Karel Bezstarosti; *Erasmus University Medical Center, Rotterdam, Netherlands*

MOA pm 04:10 **Quantitative Mass Spectrometry Identifies New Insulin/IGF-1 Signaling Targets that Influence Aging;** Meng-Qiu Dong<sup>1</sup>; John D Venable<sup>1</sup>; Nora Au<sup>2</sup>; Tao Xu<sup>1</sup>; Sung Kyu Park<sup>1</sup>; Daniel Cociorva<sup>1</sup>; Jeffrey Johnson<sup>1</sup>; Andrew Dillin<sup>3</sup>; John R Yates, III<sup>1</sup>; <sup>1</sup>The Scripps Research Institute, La Jolla, CA; <sup>2</sup>University of California, San Diego, La Jolla, CA; <sup>3</sup>The Salk Institute for Biological Studies, La Jolla, CA

MOA pm 04:30 **Use of Quantitative and Semi-Quantitative Mass Spectrometric Approaches to Investigate Physiological Roles of the Two Mammalian Mannose 6-phosphate Receptors;** Meiqian Qian; David E. Sleat; Haiyan Zheng; Peter Lobel; *CABM, Dept. of Pharmacology, UMDNJ, Piscataway, NJ*



3:30 – 5:30 pm PROTEINS: MS BASED QUANTITATION continued	
MOA pm 04:50	<b>Protein Changes Due to Stroke Tolerance in Mouse Brains;</b> <u>Martha D. Stapels</u> <sup>1</sup> ; Martin Gilar <sup>1</sup> ; John C. Gebler <sup>1</sup> ; Aaron White <sup>2</sup> ; Tao Yang <sup>2</sup> ; Roger P. Simon <sup>2</sup> ; An Zhou <sup>2</sup> ; <sup>1</sup> Waters Corporation, Milford, MA; <sup>2</sup> Legacy Research, Portland, OR
MOA pm 05:10	<b>Expanding the Capabilities of Peptide MRM-based Assays in Plasma using a Hybrid Triple Quadrupole Linear Ion Trap Mass Spectrometer;</b> <u>Christie Hunter</u> <sup>1</sup> ; Leigh Anderson <sup>2</sup> ; <sup>1</sup> Applied Biosystems, Foster City, CA; <sup>2</sup> the Plasma Proteome Institute, Washington, DC

3:30 – 5:30 pm CHARACTERIZING CROSS-LINKED PROTEINS WITH MS Chair: Christoph Borchers Wabash Ballroom, lobby level	
MOB pm 03:30	<b>Mass Spectrometric Determination of Factors Governing the Formaldehyde Cross-Linking Reaction and their Relevance for Protein Interaction Studies in Live Cells;</b> Judy Toews; Peter Schubert; Brent Sutherland; <u>Juergen Kast</u> ; University of British Columbia, Vancouver, Canada
MOB pm 03:50	<b>Novel Isotopically-Coded Crosslinkers for Structural Proteomics;</b> <u>Evgeniy Petrotchenko</u> ; Christoph Borchers; University of Victoria Genome BC Proteomics Centre, Victoria, Canada
MOB pm 04:10	<b>Crosslinked Peptide Data Obtained by Ion Mobility used to Sort Correct/Incorrect in Silico Protein Conformation Predictions;</b> <u>David R. Goodlett</u> <sup>1</sup> ; Lars Malmstroem <sup>1</sup> ; Chris Hughes <sup>2</sup> ; Pragya Singh <sup>1</sup> ; Chunsheng Zhao <sup>1</sup> ; Alex Scherl <sup>1</sup> ; Jie Liu <sup>3</sup> ; Scott Shaffer <sup>1</sup> ; James Langridge <sup>2</sup> ; <sup>1</sup> University of Washington, Seattle, WA; <sup>2</sup> Waters Corporation, Manchester, UK; <sup>3</sup> Shenzhen Nanshan Center, Shenzhen, China
MOB pm 04:30	<b>Combined LC-ESI-MS/MS and LC-MALDI-MS/MS Analysis Reveals an Unusual Protein-RNA Contact in Human [U1snRNP-snurportin1] Particles;</b> <u>Eva Kühn-Hölsken</u> <sup>1</sup> ; Christof Lenz <sup>2</sup> ; Florian Richter <sup>1</sup> ; Monika Raabe <sup>1</sup> ; Uwe Pleßmann <sup>1</sup> ; Henning Urlaub <sup>1</sup> ; <sup>1</sup> Max-Planck-Institute for Biophysical Chemistry, Göttingen, Germany; <sup>2</sup> Applied Biosystems Europe, Darmstadt, Germany
MOB pm 04:50	<b>Identification of Cross-Linked Peptides from Complex Samples with Full Proteome Protein Databases;</b> <u>Oliver Rinner</u> <sup>1</sup> ; Jan Seebacher <sup>2</sup> ; Martin Beck <sup>1</sup> ; Alexander Schmidt <sup>1</sup> ; Thomas Walzthoeni <sup>1</sup> ; Lukas Mueller <sup>1</sup> ; Markus Mueller <sup>1</sup> ; Ruedi Aebersold <sup>1</sup> ; <sup>1</sup> Swiss Federal Institute of Technology, Zurich, Switzerland; <sup>2</sup> Harvard Medical School, Boston, MA
MOB pm 05:10	<b>Identification of Outer Membrane Protein OmcA-MtrC Interactions in Shewanella Oneidensis MR-1 Cell in vivo using Novel Cross-Linker and Mass Spectrometry;</b> <u>Haizhen Zhang</u> <sup>1</sup> ; Xiaoting Tang <sup>1</sup> ; Natalia Zakharova <sup>1</sup> ; Gerhard R. Munske <sup>1</sup> ; Megan A. Wolff <sup>1</sup> ; Liang Shi <sup>2</sup> ; James K. Fredrickson <sup>2</sup> ; Nikola Tolic <sup>2</sup> ; Gordon A. Anderson <sup>2</sup> ; James E. Bruce <sup>1</sup> ; <sup>1</sup> Washington State University, Pullman, WA;

3:30 – 5:30 pm THE GOLDEN ERA OF ENVIRONMENTAL MS: HONORING RON HITES AND BILL BUDDÉ Chair: Susan Richardson Room 120-124, lobby level	
MOC pm 03:30	<b>I'm Just a Simple Chemist: The Environmental Mass Spectrometry Contributions of Professor Ronald Atlee Hites;</b> <u>Edward T. Furlong</u> ; National Water Quality Laboratory, U.S.G.S., Denver, CO
MOC pm 03:50	<b>Mass Spectrometry Memories: Personal Reflection on the Transformation of Environmental Mass Spectrometry;</b> <u>Deborah L. Swackhamer</u> ; University of Minnesota, Minneapolis, MN
MOC pm 04:10	<b>The Golden Era of Environmental Mass Spectrometry is Now;</b> <u>Ronald A. Hites</u> ; Indiana University, Bloomington, IN
MOC pm 04:30	<b>“Toxic Clouds”: Chapter 1 in the Story of Tetrachlorodibenzodioxin, Its Analysis and Its Accumulation in the Environment and in Humans;</b> <u>Michael L. Gross</u> ; Washington University, St Louis, MO
MOC pm 04:50	<b>William L. Budde: A Retrospective;</b> <u>O. David Sparkman</u> ; University of the Pacific, Antioch, CA
MOC pm 05:10	<b>A Top Seven List for the Golden Era of Environmental Mass Spectrometry;</b> <u>William L. Budde</u> ; USEPA (Retired), Cincinnati, OH

3:30 – 5:30 pm ENDOGENOUS METABOLITE PROFILING Chair: Bethanne Warrack 500 Ballroom, lobby level	
MOD pm 03:30	<b>Update and Overview of Metabonomics;</b> <u>Michael Reily</u> ; Pfizer, Inc., Ann Arbor, MI
MOD pm 04:10	<b>Sample Preparation Approaches and Data Analysis for Metabonomic Profiling of Plasma Samples;</b> <u>Petia Shipkova</u> ; Emily Luk; Serhiy Hnatyshyn; Mark Sanders; Bristol Myers Squibb PRI, Princeton, NJ
MOD pm 04:30	<b>Recent Advances in Expanding the MS/MS Spectral Database of Endogenous Human Metabolites;</b> <u>Melisa Clements</u> ; Liang Li; University of Alberta, Edmonton, Canada
MOD pm 04:50	<b>Using Isotopic Variants of Cholamine for Relative Quantification of Carboxylic Acid Metabolites by LC-MS;</b> <u>Michael R. Shortreed</u> ; Brian L. Frey; Shane M. Lamos; Peter J. Belshaw; Lloyd M. Smith; University of Wisconsin, Madison, WI
MOD pm 05:10	<b>From Cells to Humans: Mass Based Metabolomics Applied to Clinical and Fundamental Biochemistry;</b> <u>William Wikoff</u> <sup>1</sup> ; Jon Gangotti <sup>2</sup> ; Bruce Barshop <sup>2</sup> ; Gary Siuzdak <sup>1</sup> ; <sup>1</sup> The Scripps Research Institute, San Diego, CA; <sup>2</sup> UCSD School of Medicine, La Jolla, CA

**MONDAY AFTERNOON continued**

**3:30 – 5:30 pm**  
**MOLECULAR RECOGNITION AND SUPRAMOLECULAR**  
**GAS-PHASE ION CHEMISTRY**  
**Chair: Ryan R. Julian**  
 Sagamore Ballroom 5-6-7, level two

- MOE pm 03:30 **Molecular Strings and Springs:  $\alpha,\beta$ -Alkyldiammonium Complexes of Cucurbit[6]uril in the Gas Phase;** David V. Dearden<sup>1</sup>; Haizhen Zhang<sup>2</sup>; Tyler A. Ferrell<sup>1</sup>; Matthew C. Asplund<sup>1</sup>; <sup>1</sup>Brigham Young University, Provo, UT; <sup>2</sup>Washington State University, Pullman, WA
- MOE pm 03:50 **The Role of Phosphorylated Residues in Peptide-Peptide Noncovalent Complexes;** Shelley N Jackson; Amina S Woods; *NIDA-IRP, NIH, Baltimore, MD*
- MOE pm 04:10 **Stereoselective Ligand Binding to Manganese/Salen Catalysts: A Gas-Phase Equilibrium Study;** Scott Gronert<sup>1</sup>; Adelaide Fagin<sup>2</sup>; Michel Lau<sup>2</sup>; Guoping Wang<sup>1</sup>; <sup>1</sup>Virginia Commonwealth University, Richmond, VA; <sup>2</sup>San Francisco State University, San Francisco, CA
- MOE pm 04:30 **Characterisation of Noncovalently Bound Protein-RNA Complexes and their Role in Virus Capsid Assembly Mechanisms using ESI-MS;** Alison E. Ashcroft; Gabriela Basnak; Ottar Rolfsson; Simona Francese; Gary S. Thompson; Nicola J. Stonehouse; Peter G. Stockley; *University Of Leeds, Leeds, , United Kingdom*
- MOE pm 04:50 **Insights into the Folding and Subunit Interactions of Hemoglobin by ESI-MS;** Brian L. Boys; Lars Konermann; *University of Western Ontario, Ontario, Canada*
- MOE pm 05:10 **Mass Spectrometry Detection of Metal-Binding Protein Structure Modulation Caused by Ligand Interactions;** Elena Igwe; Graham Jansz; Graham A. McGibbon; *McMaster University, Hamilton, Canada*

**3:30 – 5:30 pm**  
**DEVELOPMENTS IN ION TRAP MASS SPECTROMETRY**  
**Chair: Glen Jackson**  
 Sagamore Ballroom 3-4, level two

- MOF pm 03:30 **Doing the Ion-Trap Hokey-Pokey: ‘Put Your Ions In, Get Your Ions Out, Put Your Ions in and Shake-‘Em All About’;** Gavin E. Reid; *Michigan State University, East Lansing, MI*
- MOF pm 03:50 **The Right Place and the Right Time: Increasing the Capacity in Modern 3-D Ion Traps;** Andreas Brekenfeld<sup>1</sup>; Desmond A. Kaplan<sup>2</sup>; Ralf Hartmer<sup>1</sup>; Jonathan Wilson<sup>2</sup>; Christoph Gebhardt<sup>1</sup>; Michael Schubert<sup>2</sup>; <sup>1</sup>Bruker Daltonik GmbH, Bremen, Germany; <sup>2</sup>Bruker Daltonics, Inc., Billerica, MA
- MOF pm 04:10 **Dynamic CID – A Novel Method to Achieve Fast Fragmentation of Biomolecules in a QIT;** Únige A. Laskay; Olivier L. Collin; Glen P. Jackson; *Ohio University, Athens, OH*
- MOF pm 04:30 **Transmission Mode Ion/Ion Reactions in a Linear Ion Trap;** Xiaorong Liang<sup>1</sup>; Yu Xia<sup>1</sup>; James W. Hager<sup>2</sup>; Jian Liu<sup>1</sup>; Hongling Han<sup>1</sup>; Joshua F. Emory<sup>1</sup>; Brittany D.M. Hodges<sup>1</sup>; Scott A. McLuckey<sup>1</sup>; <sup>1</sup>Purdue University, West Lafayette, IN; <sup>2</sup>MDS Sciex, Concord, ON, Canada

- MOF pm 04:50 **Implementation of Electron Transfer Dissociation on a Hybrid Linear Ion Trap-Orbitrap Mass Spectrometer;** Graeme Mcalister<sup>1</sup>; Alexander Makarov<sup>2,3</sup>; Stevan Horning<sup>2,3</sup>; Jae C. Schwartz<sup>2,3</sup>; Doug Phanstiel<sup>1</sup>; David M. Good<sup>1</sup>; W. Travis Berggren<sup>1</sup>; Joshua J. Coon<sup>1</sup>; <sup>1</sup>The University of Wisconsin at Madison, Madison, WI; <sup>2</sup>Thermo Fischer Scientific, Bremen, Germany; <sup>3</sup>Thermo Fischer Scientific, San Jose, CA
- MOF pm 05:10 **Diagonal Dipolar Excitation Linear Ion Trap;** Houle Wang<sup>1</sup>; David S. Kennedy<sup>1</sup>; Kerry D. Nugent<sup>1</sup>; Gregory K. Taylor<sup>2</sup>; David R. Goodlett<sup>2</sup>; <sup>1</sup>Michrom BioResources, Inc., Auburn, CA; <sup>2</sup>University of Washington, Seattle, WA

**3:30 – 5:30 pm**  
**CHALLENGES IN POLYMER MS ANALYSIS**  
**Chair: Sarah Trimpin**  
 Sagamore Ballroom 1-2, level two

- MOG pm 03:30 **Challenges in Polymer Characterization and ASAP and API-Pyrolysis for Polymer characterization;** Charles N. McEwen; *E I DuPont De Nemours, Wilmington, DE*
- MOG pm 03:50 **Laser-Induced Acoustic Desorption / Chemical Ionization (LIAD/CI) Strategies Towards the Direct Mass Spectrometric Analysis of Underivatized Polyisobutylenes;** Putuma P. Ggamana<sup>1</sup>; David Aaserud<sup>2</sup>; Hilkka I. Kenttämä<sup>1</sup>; <sup>1</sup>Purdue University, West Lafayette, IN; <sup>2</sup>The Lubrizol Corporation, Wickliffe, OH
- MOG pm 04:10 **Polymer Characterization using Sophisticated Liquid Chromatographic Techniques Combined with MALDI- and ESI-TOF Mass Spectrometry;** Steffen M. Weidner; Jana Falkenhagen; Ulrich Just; Andreas Thuenemann; Sergey Maltsev; *Fed. Institute for Materials Research and Testing, Berlin, Germany*
- MOG pm 04:30 **Analysis of Homopolymers and Copolymers by Ion Mobility Spectrometry-Mass Spectrometry;** Dragan Isailovic; Sarah Trimpin; Ruwan T Kurulugama; David E Clemmer; *Indiana University, Bloomington, , IN*
- MOG pm 04:50 **Dissociation Pathways of Polymer Ions;** Chrys Wesdemiotis; Michael J. Polce; Kittisak Chaicharoen; Alyison M. Leigh; Edgardo Rivera-Tirado; *University of Akron, Akron, OH*
- MOG pm 05:10 **An Approach to the Quantitative Determination of Polymer Molecular Mass Distribution by MALDI-TOF-Mass Spectrometry;** Charles M. Guttman; Kathleen M. Flynn; William E. Wallace; *NIST, Polymer Division, Gaithersburg, MD*

**5:45 – 7:00 pm**  
**WORKSHOPS**  
 Please see schedule on page 18.

**TUESDAY MORNING, JUNE 5**

**7:30 – 8:15 am**  
**WAKE UP COFFEE**  
 Outside Exhibit Hall D

**8:15 - 10:15 am**  
**MS DETERMINATION OF BIOMARKERS FOR**  
**DRUG SAFETY AND EFFICACY**

**Chair: Tracie Williams**  
 Exhibit Hall D, lobby level

- TOA am 08:15 **The Direct Use of Mass Spectrometry Measurements of Protein Biomarkers to Guide Drug Development Efforts;** John E. Hale; Jon P. Butler; Valentina Gelfanova; Jesus A. Gutierrez; Laura V. Hale; Bomie Han; Richard E. Higgs; Zhaoyan Jin; Michael D. Knierman; Jeffery S. Patrick; Masahiko Sato; Szekeres Philip; David E. Watson; Jill A. Willency; Yuejun Zhen; *Eli Lilly & Co., Indianapolis, IN*
- TOA am 08:35 **An Intact Protein LC/MS Strategy for Serum Biomarker Development: Biomarkers of Hepatic Responsiveness to Chemopreventive Treatment with the Triterpenoid CDDO-Im;** Peter F. Scholl<sup>1</sup>; Denis Andrzejewski<sup>2</sup>; John H. Callahan<sup>2</sup>; Steven M. Musser<sup>2</sup>; Thomas W. Kensler<sup>1</sup>; John D. Groopman<sup>1</sup>; <sup>1</sup>*Johns Hopkins University, Baltimore, MD*; <sup>2</sup>*U.S. Food and Drug Administration, CFSAN, College Park, MD*
- TOA am 08:55 **Mass Spectrometric Quantitation of Small Molecules as Enabling Technology Beyond ADME – Improving Sensitivity and Throughput in Measuring Pharmacodynamic Markers;** Wenlin Li; Chengjie Ji; Gabriella Szekely-Klepser; Nalini Sadagopan; *Pfizer Global R&D, Ann Arbor, MI*
- TOA am 09:15 **The Application of 8plex iTRAQ Reagents to Study the Spinal Fluid Proteome in an Alzheimer's Clinical Trial;** Kelvin H. Lee<sup>1</sup>; Leila H. Choe<sup>1</sup>; Mark d'Ascenzo<sup>1</sup>; Darryl Pappin<sup>3</sup>; Norman R. Relkin<sup>2</sup>; <sup>1</sup>*Cornell University, Ithaca, NY*; <sup>2</sup>*Cornell Univ. Medical College, New York, NY*; <sup>3</sup>*Applied Biosystems, Framingham, MA*
- TOA am 09:35 **Bioanalytical Strategies for Antibody Drug Conjugate (ADC) Biopharmaceutical Development: Characterization of Trastuzumab-MCC-DM1 in Plasma by Affinity Mass Spectrometry;** Keyang Xu; Ola M. Saad; Jakub Baudys; Lara Williams; Surinder Kaur; *Genentech, Inc., South San Francisco, CA*
- TOA am 09:55 **Accelerating Novel Drug Target Identification by Quantitative Proteomics;** Shao-en Ong; Monica Schenone; Stuart L. Schreiber; Steve Carr; *Broad Institute of MIT & Harvard, Cambridge, MA*

**8:15 - 10:15 am**  
**ETD v. ECD**

**Chair: Joshua J. Coon**  
 Wabash Ballroom, lobby level

- TOB am 08:15 **Radical-Induced Loss and Rearrangement Reactions in Electron-Capture Dissociation Studied using a Database Containing Over 15,000 Mass Spectra;** Mikhail Savitski; Michael Nielsen; Christopher Adams; Roman Zubarev; *Uppsala University, Uppsala, Sweden*
- TOB am 08:35 **Application of Electron Transfer Dissociation (ETD) Mass Spectrometry in Proteomic Analysis;** Catherine C.L. Wong; Xuemei Han; Daniel Cociorva; Tao Xu; John R. Yates; *The Scripps Research Institute, La Jolla, CA*
- TOB am 08:55 **Electron Capture/Transfer Dissociation Product Ion Abundances: Correlation with Amino Acid Hydrophobicity and Application in Peptide and Protein Structural Analysis;** Yury O. Tsybin<sup>1</sup>; Huan He<sup>2</sup>; Hisham Ben Hamidane<sup>1</sup>; Mark R. Emmett<sup>2</sup>; Christopher L. Hendrickson<sup>2</sup>; Oleg Yu. Tsybin<sup>3</sup>; Alan G. Marshall<sup>2</sup>; <sup>1</sup>*Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland*; <sup>2</sup>*National High Magnetic Field Laboratory, Tallahassee, FL*; <sup>3</sup>*State Polytechnical University, Saint-Petersburg, Russia*
- TOB am 09:15 **The Utility of Electron Transfer Dissociation in Routine Top-Down Analysis of Complex Protein Mixtures;** Maureen K. Bunger; Benjamin J. Cargile; Jonathan L. Bundy; James L. Stephenson, Jr.; *Research Triangle Institute, Research Triangle Park, NC*
- TOB am 09:35 **Characterization of >150 Human Histone H3 Forms using Electron Capture Dissociation and FTMS;** Benjamin A. Garcia; James J. Pesavento; Craig A. Mizzen; Neil L. Kelleher; *University of Illinois, Champaign, IL*
- TOB am 09:55 **Performance Characteristics of Electron Transfer Dissociation;** Doug Phanstiel; David M. Good; Matthew Wirtala; Graeme McAlister; Joshua J. Coon; *University of Wisconsin, Madison, WI*

**8:15 - 10:15 am**  
**MS ANALYSIS OF DNA ADDUCTS**

**Chair: Yinsheng Wang**  
 Room 120-124, lobby level

- TOC am 08:15 **Probing Ligand Binding to Duplex DNA using KMnO4 Reactions and Electrospray Ionization Tandem Mass spectrometry;** Jennifer Brodbelt; Carolyn Mazzitelli; *The University of Texas, Austin, TX*
- TOC am 08:35 **Correlating DNA Adduct Levels and Gene Expression using LC-MS/MS and DNA Microarrays for a Foodborne Heterocyclic Aromatic Amine Procarcinogen;** James Glick<sup>1</sup>; Robert C. Sullivan<sup>2</sup>; Helmut Zarbl<sup>2</sup>; Paul Vouros<sup>1</sup>; <sup>1</sup>*Northeastern University and Barnett Institute, Boston, MA*; <sup>2</sup>*Robert Wood Johnson Medical School, Piscataway, NJ*
- TOC am 08:55 **Identification and Quantification of Novel Oxidative Intrastrand Crosslink Lesions Formed in HeLa Cells;** Haizheng Hong; Huachuan Cao; Yinsheng Wang; *University of California, Riverside, CA*

**8:15 - 10:15 am**  
**MS ANALYSIS OF DNA ADDUCTS continued**

- TOC am 09:15 **Stable Isotope Labeling – HPLC-MS/MS Analysis of Sequence Preferences for DNA Adduct Formation;** Natalia Tretyakova; *University of Minnesota, Minneapolis, MN*
- TOC am 09:35 **Simultaneous Characterization and Quantification of Multiple DNA Adducts by LC-ESI/MS<sup>n</sup> for Potential Use in Human Biomonitoring Studies;** Angela K. Goodenough; Robert J. Turesky; *Wadsworth Center, Albany, NY*
- TOC am 09:55 **HPLC-ESI-MS/MS Method for Kinetic Analysis of O<sup>6</sup>-Alkylguanine DNA Alkyltransferase Mediated Repair of Carcinogen Induced O<sup>6</sup>-alkyldeoxyguanosine Lesions;** Rebecca C. Guza<sup>1</sup>; Qingming Fang<sup>2</sup>; Anthony E. Pegg<sup>2</sup>; Natalia Tretyakova<sup>1</sup>; <sup>1</sup>*University of Minnesota, Minneapolis, MN*; <sup>2</sup>*Pennsylvania State University College of Medicine, Hershey, PA*

**8:15 - 10:15 am**  
**PROTEIN PROTEIN INTERACTIONS**  
**Chair: Julie A. Leary**  
500 Ballroom, lobby level

- TOD am 08:15 **Use of a Travelling Wave-Based Ion Mobility Mass Spectrometry Approach to Resolve Proteins of Varying Conformation;** James H Scrivens<sup>1</sup>; Konstantinos Thalassinos<sup>1</sup>; Gillian Hilton<sup>1</sup>; Susan E Slade<sup>1</sup>; Teresa J T Pinheiro<sup>1</sup>; Robert H Bateman<sup>2</sup>; Michael T Bowers<sup>3</sup>; <sup>1</sup>*Univ of Warwick, Coventry, United Kingdom*; <sup>2</sup>*Waters, Manchester, UK*; <sup>3</sup>*UCSB, Santa Barbara, CA*
- TOD am 08:35 **Use of Ion Mobility and High Mass Analysis for the Determination of Protein Protein Interaction and Topology;** Iain D G Campuzano<sup>1</sup>; James Langridge<sup>1</sup>; Armann Andaya<sup>2</sup>; Matthew Schenauer<sup>2</sup>; Julie Leary<sup>2</sup>; <sup>1</sup>*Waters Corporation, Manchester, United Kingdom*; <sup>2</sup>*Genome Centre UC Davis, Davis, CA*
- TOD am 08:55 **Interactions between Viral Accessory Proteins and Src-Family Kinases Measured by H/D Exchange Mass Spectrometry;** John R. Engen<sup>1</sup>; Thomas E. Wales<sup>1</sup>; David D. Weis<sup>2</sup>; Lori Emert-Sedlak<sup>3</sup>; Thomas E. Smithgall<sup>3</sup>; <sup>1</sup>*Northeastern University, Boston, MA*; <sup>2</sup>*University of New Mexico, Albuquerque, NM*; <sup>3</sup>*University of Pittsburgh, Pittsburgh, PA*
- TOD am 09:15 **Comparing SID and CID of Noncovalent Protein-Protein Complexes in a Modified QTOF Mass Spectrometer;** Richard L. Beardsley; Christopher M. Jones; Asiri S. Galhena; Vicki H. Wysocki; *University of Arizona, Tucson, AZ*
- TOD am 09:35 **Virus Assembly Studied by Macromolecular (Tandem) Mass Spectrometry and Ion Mobility;** Kristina Lorenzen; Charlotte Utrecht; Cees Versluis; Albert J.R. Heck; *Utrecht University, CA Utrecht, Netherlands*
- TOD am 09:55 **Protein Conformational Flexibility and Structural Change upon Binding of Ligands and Proteins Studied by Ion Mobility Q-TOF MS;** Stephen J. Watt<sup>1</sup>; Iain Campuzano<sup>2</sup>; Frank Sobott<sup>1</sup>; <sup>1</sup>*Structural Genomics Consortium,*

**8:15 - 10:15 am**  
**LC-MALDI MASS SPECTROMETRY**  
**Chair: Liang Li**

Sagamore Ballroom 5-6-7, level two

- TOE am 08:15 **Optimizing the LC-MALDI Process: From High-Density Sample Fractionation to Data Acquisition;** J. Bryce Young; Liang Li; *University of Alberta, Edmonton, Canada*
- TOE am 08:55 **2D HPLC-MALDI MS Analysis of Complex Protein Mixtures with Peptide Retention Prediction in Both Dimensions;** Oleg V. Krokhin<sup>1</sup>; Vic Spicer<sup>2</sup>; Werner Ens<sup>2</sup>; Kenneth G. Standing<sup>2</sup>; John A. Wilkins<sup>1</sup>; <sup>1</sup>*Manitoba Centre for Proteomics and Systems Biology, Winnipeg, Canada*; <sup>2</sup>*University of Manitoba, Winnipeg, Canada*
- TOE am 09:15 **1D- and 2D-Protein Chromatography within the Proteomics Workflow for Enhanced Characterization of Protein Post-Translational Modifications;** Mark E. Mccomb; Claire Dauly; David H. Perlman; Weiwei Tong; Yang Su; Boris Hayete; James West; Catherine E. Costello; *Cardiovascular Proteomics Center, BUSM, Boston, MA*
- TOE am 09:35 **Combining MALDI-FTMS and Bioinformatics for Peptidomic Comparison Among Decapod Crustacean Species;** Joshua Schmidt<sup>1</sup>; Andrew Christie<sup>2</sup>; Sean McIlwain<sup>1</sup>; Mingming Ma<sup>1</sup>; David Page<sup>1</sup>; Lingjun Li<sup>1</sup>; <sup>1</sup>*University of Wisconsin-Madison, Madison, WI*; <sup>2</sup>*University of Washington, Seattle, WA*
- TOE am 09:55 **LC-MALDI-TOF-TOF Experiments on Venoms: A Powerful Approach for de novo and Top-Down Sequencing of New Pharmacological Tools;** Loïc Quinton<sup>1</sup>; Kevin Demeure<sup>1</sup>; Rowan Dobson<sup>1</sup>; Nicolas Gilles<sup>2</sup>; Edwin De Pauw<sup>1</sup>; <sup>1</sup>*University of Liège, Liège, Belgium*; <sup>2</sup>*CEA - DIEP, Saclay, France*

**8:15 - 10:15 am**  
**DEVELOPMENTS IN TOF MS INSTRUMENTATION**  
**Chair: Werner E. Ens**

Sagamore Ballroom 3-4, level two

- TOF am 08:15 **High Performance MALDI-TOF Mass Spectrometry;** Marvin Vestal; *Virgin Instruments Corp., Sudbury, MA*
- TOF am 08:35 **MS<sup>n</sup> on a QqTOF Tandem Mass Spectrometer;** Bruce A. Thomson; Igor V. Chernushevich; *MDS Sciex, Concord, Canada*
- TOF am 08:55 **A Multiple-Reflection Time-of-Flight Isobar Separator;** Wolfgang R. Plass<sup>1</sup>; Timo Dickel<sup>1</sup>; Martin Petrick<sup>1</sup>; Ulrich Czok<sup>1</sup>; Hans Geissel<sup>2</sup>; Christian Jesch<sup>1</sup>; Christoph Scheidenberger<sup>2</sup>; <sup>1</sup>*Justus-Liebig-Universität Giessen, Giessen, Germany*; <sup>2</sup>*Gesellschaft für Schwerionenforschung, Darmstadt, Germany*
- TOF am 09:15 **High Resolution Multi Reflecting Time-of-Flight Mass Spectrometer with Electrospray Ion Source;** Viatcheslav Artaev<sup>1</sup>; Matthew Giardina<sup>1</sup>; Anatoly Verentchikov<sup>2</sup>; Yuri Hasin<sup>2</sup>; Mikhail Gavrik<sup>2</sup>; Boris Kozlov<sup>2</sup>; Marat Muradymov<sup>2</sup>; Michail Yavor<sup>2</sup>; <sup>1</sup>*LECO Corporation, St Joseph, MI*; <sup>2</sup>*Mass Spectrometry Consulting, St. Petersburg, Russia*

**TUESDAY MORNING continued**

**8:15 - 10:15 am  
DEVELOPMENTS IN TOF MS INSTRUMENTATION  
continued**

- TOF am 09:35 **Dynamic Range Extension for TOF MS with Orthogonal Injection**; Igor Chernushevich; Alexander Loboda; *MDS Sciex, Concord, Canada*
- TOF am 09:55 **Ultra-sensitive Determination of Polycyclic Aromatic Compounds with an Atmospheric Pressure Laser Ionization Interface for AP GC-MS**; Thorsten Benter; Ralf Schiewek; Marc Schellentraeger; Rene Moennikes; Matthias Lorenz; Ronald Giese; Klaus J Brockmann; Siegmar Gaeb; Oliver J Schmitz; *University of Wuppertal, Wuppertal, Germany*

**8:15 - 10:15 am  
HYDROCARBON ANALYSIS VIA MASS SPECTROMETRY  
Chair: Ryan P. Rodgers  
Sagamore Ballroom 1-2, level two**

- TOG am 08:15 **Sulfur Speciation of Petroleum by Atmospheric Pressure Photoionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry**; Alan G. Marshall; Jeremiah M. Purcell; Christopher L. Hendrickson; Do-Gyun Kim; Ryan P. Rodgers; *Ion Cyclotron Resonance Prog, Tallahassee, FL*
- TOG am 08:35 **Classification of Sulfur Heterocycles in Crude Oil Fractions using Chromatographic Sample Preparation and FT-ICR MS Analysis**; Wolfgang Schrader<sup>1</sup>; Saroj K. Panda<sup>1</sup>; Jan T. Andersson<sup>2</sup>; <sup>1</sup>*Max-Planck-Institut für Kohlenforschung, Mülheim / Ruhr, Germany*; <sup>2</sup>*Westfälische Wilhelms-Universität Münster, Münster, Germany*
- TOG am 08:55 **Field Ionization Mass Spectrometry, Response Factors, and the Use in Quantifying Base Oil**; Michael T. Cheng; James Hudson; *Chevron Research, Richmond, CA*
- TOG am 09:15 **A new Approach to Molecular Characterization of Solid Petroleum Precursors by a Tandem NMR and FT-ICR-MS at 12 Tesla**; Rachel L. Sleighter<sup>1</sup>; Heidi M. Bialk<sup>1</sup>; Isaiah D. Ruhl<sup>2</sup>; Patrick G Hatcher<sup>1</sup>; <sup>1</sup>*Old Dominion University, Norfolk, VA*; <sup>2</sup>*Ohio State University, Columbus, OH*
- TOG am 09:35 **Hydrocarbon Analysis with the Supersonic GC-MS - A Novel Concept of Isomer Abundance Analysis**; Alexander B. Fialkov; Aviv Amirav; Alexander Gordin; *Tel-Aviv University, Tel-Aviv, Israel*
- TOG am 09:55 **Reactions of CIMn(H<sub>2</sub>O)<sup>+</sup> with Polar and Nonpolar Hydrocarbons in FT-ICR: Observation of H<sub>2</sub>O Ligand Displacement without Dehydrogenation or Fragmentation**; Penggao Duan<sup>1</sup>; Mingkun Fu<sup>1</sup>; David S. Pinkston<sup>1</sup>; Steven C. Habicht<sup>1</sup>; Kuangnan Qian<sup>2</sup>; Hilikka I. Kenttämä<sup>1</sup>; <sup>1</sup>*Purdue University, West Lafayette, IN*; <sup>2</sup>*ExxonMobil Research and Engineering Company*

**10:15 am – 2:30 pm  
POSTER SESSION AND EXHIBITS**

- 7:30 – 8:00 am ..... Set up Tuesday posters (page 69)  
10:15 am – 2:30 pm ..... All Tuesday poster authors present  
11:45 am – 12:15 pm ..... Lunch break for odd-numbered posters  
12:15 – 12:45 pm ..... Lunch break for even-numbered posters  
7:30 – 8:00 pm ..... Remove all Tuesday posters

**12:45 – 2:00 pm  
INTEREST GROUP MEETINGS**  
See schedule on page 18.

**TUESDAY AFTERNOON**

**2:30 - 4:30 pm  
DYNAMIC RANGE IN MASS SPECTROMETRY BASED  
PROTEOMICS MEASUREMENTS  
Chair: Michael J. MacCoss  
Exhibit Hall D, lobby level**

- TOA pm 02:30 **DASER-MMF - Finding ALL the Needles in a Haystack**; Ryan M. Danell<sup>1</sup>; Severine A. Ouvry-Patat<sup>2</sup>; Cameron O. Scarlett<sup>3</sup>; J. Paul Speir<sup>4</sup>; Christoph H. Borchers<sup>5</sup>; <sup>1</sup>*Danell Consulting, Greenville, NC*; <sup>2</sup>*University of North Carolina, Chapel Hill, NC*; <sup>3</sup>*University of Wisconsin, Madison, WI*; <sup>4</sup>*Bruker Daltonics, Billerica, MA*; <sup>5</sup>*University of Victoria Proteomics Centre, Victoria, Canada*
- TOA pm 02:50 **Assessment of the Dynamic Range in Profiling Complex Mixtures by  $\mu$ LC-MS using Fourier Transform Mass Spectrometry**; Michael R. Hoopmann; Michael J. MacCoss; *Univ of Washington, Genome Sciences, Seattle, WA*
- TOA pm 03:10 **Complementing Discovery-Based Proteomic Platforms with Targeted Analysis of Proteins Involved in Human Heart Failure**; Kelli G. Kline<sup>1</sup>; Michael J. MacCoss<sup>2</sup>; Christine C. Wu<sup>1</sup>; <sup>1</sup>*University of Colorado Health Sciences Center, Aurora, Cty*; <sup>2</sup>*University of Washington, Seattle, WA*
- TOA pm 03:30 **Quantitative Mass Spectrometric Assay Development for Characterizing Endogenous B-type Natriuretic Peptide (BNP) from Congestive Heart Failure Patients**; Adam Hawkrige<sup>1</sup>; Denise M. Heublein<sup>2</sup>; Alessandro Cataliotti<sup>2</sup>; John C. Burnett, Jr.<sup>2</sup>; David C. Muddiman<sup>1</sup>; <sup>1</sup>*NC State University, Raleigh, NC*; <sup>2</sup>*Mayo Clinic College of Medicine, Rochester, MN*
- TOA pm 03:50 **Comprehensive Comparative Proteomic and Transcriptomic Profiling of the Fission Yeast *Schizosaccharomyces Pombe***; Michael W. Schmidt; Andres Houseman; Katie Doud; Dieter A. Wolf; Alexander R. Ivanov; *Harvard School of Public Health, Boston, MA*
- TOA pm 04:10 **Informative Fractionation and FT ICR MS Analysis to Go Down into the Dynamic Range of Expression of Plasma Proteins**; Olivia Guerre; Florence Guérard; Christian Rolando; *Univ. des Science/Tech de Lille, Villeneuve d'Ascq, France*

**TUESDAY AFTERNOON continued**

**2:30 - 4:30 pm  
MS EVALUATION OF BIOMARKERS**

**Chair: Lambert C. Ngoka**  
Wabash Ballroom, lobby level

- TOB pm 02:30 **Inactivation of Glyceroldehyde-3-Phosphate Dehydrogenase by Fumarate: Formation of S-(2-succinyl)cysteine, a Novel Biomarker of Mitochondrial Dysfunction in Diabetes;** Matthew Blatnik; Norma Frizzell; Susan R. Thorpe; John W. Baynes; *University of South Carolina, Columbia, SC*
- TOB pm 02:50 **Application of FAIMS for Increased Selectivity in Quantitation of Asparagine Synthetase from Leukemia Samples;** Susan E. Abbatiello; Thomas P. Conrads; *University of Pittsburgh Cancer Institute, Pittsburgh, PA*
- TOB pm 03:10 **Quantitation of Protein Biomarkers of Cardiovascular Injury in Patients by Targeted MS;** Terri Addona<sup>1</sup>; Hasmik Keshishian<sup>1</sup>; Michael Burgess<sup>1</sup>; Xu Shi<sup>2</sup>; Veronica Saenz-Vash<sup>1</sup>; Eric Kuhn<sup>1</sup>; Robert E. Gerszten<sup>2</sup>; Steven A. Carr<sup>1</sup>; <sup>1</sup>*Broad Institute of MIT and Harvard, Cambridge, MA*; <sup>2</sup>*Massachusetts General Hospital, Boston, MA*
- TOB pm 03:30 **Identification of Potential Plasma Biomarkers of Traumatic Brain Injury using a Subtractive Proteomic Approach;** Fabio Leonessa<sup>2</sup>; Eleanor Y. Lee<sup>2</sup>; DaRue A. Prieto<sup>1</sup>; King C. Chan<sup>1</sup>; Hongna Pan<sup>2</sup>; Haleem J. Issaq<sup>1</sup>; Timothy D. Veenstra<sup>1</sup>; James M. Ecklund<sup>2</sup>; <sup>1</sup>*SAIC-Frederick, Frederick, MD*; <sup>2</sup>*Uniformed Services University of Health Sciences, Bethesda, MD*
- TOB pm 03:50 **Identification and Validation of Differentially Expressed Proteins Associated with Hypoxia in Human Malignant Glioma Cell Lines;** Uwe Warnken<sup>1</sup>; Tore Kempf<sup>1</sup>; Stefan Rahn<sup>1</sup>; Wolfgang Wick<sup>2</sup>; Brigitte Frank<sup>2</sup>; Martina Schnölzer<sup>1</sup>; <sup>1</sup>*German Cancer Research Center, Heidelberg, Germany*; <sup>2</sup>*University of Tübingen Medical School, Tübingen, Germany*
- TOB pm 04:10 **Novel Strategy for Multiplexed Biomarker Analysis;** Bruno Domon; Hoo-Keun Lee; Vinzenz Lange; Ruedi Aebersold; *ETH Zurich, Zurich, Switzerland*

**2:30 - 4:30 pm  
MS IMAGING: SMALL MOLECULES**

**Chair: Pierre Chaurand**  
Room 120-124, lobby level

- TOC pm 02:30 **Imaging Drugs and Metabolites in Tissues by MALDI MS;** Michelle L. Reyzer; Richard M. Caprioli; *Vanderbilt University, Nashville, TN*
- TOC pm 02:50 **MALDI Mass Spectrometric Imaging of Lipids: The Use of Sublimation for Matrix Deposition Minimizes Analyte Spreading;** Joseph A. Hankin; Robert M. Barkley; Robert C. Murphy; *University of Colorado Health Science Ctr, Aurora, CO*
- TOC pm 03:10 **Investigation of Alternative Matrixes for LDI MS imaging of Small Molecules;** Sangwon Cha; Hui Zhang; Wenxu Zhou; Basil Nikolau; Edward S. Yeung; *Iowa State University, Ames, IA*

TOC pm 03:30 **High Resolution Imaging of Secreted Peptides in Bacterial Community;** Delphine Debois<sup>1</sup>; Vincent Guérineau<sup>1</sup>; Kassem Hamzé<sup>2</sup>; Barry Holland<sup>2</sup>; Simone Séror<sup>2</sup>; Alain Brunelle<sup>1</sup>; Olivier Laprèvote<sup>1</sup>; <sup>1</sup>*Laboratoire de Spectrométrie de Masse, ICSN / CNRS, Gif-sur-Yvette, France*; <sup>2</sup>*Institut de Génétique et Microbiologie, CNRS, Orsay, France*

TOC pm 03:50 **Whole-Cell Sample Preparation for Imaging Mass Spectrometry of Individual Cells and Application to Radiation Treatment of Human Breast Cancer Cells;** Elena S.F. Berman; Susan L. Fortson; Mark G. Knize; Ligang Wu; Kristen S. Kulp; James S. Felton; Kuang Jen Wu; *Lawrence Livermore National Lab, Livermore, CA*

TOC pm 04:10 **Analysis of Latent Fingerprints by Imaging Desorption Electrospray Ionization (DESI) - Mass Spectrometry;** Demian R. Iffa; Ismael Cotte-Rodriguez; Nicolas E. Manick; Luke Gumaelius; R. Graham Cooks; *Purdue University, West Lafayette, IN*

**2:30 - 4:30 pm  
HYPHENATED MS TECHNIQUES IN METABOLITE ANALYSIS**

**Chair: Jonathan L. Josephs**  
500 Ballroom, lobby level

- TOD pm 02:30 **Metabolite Identification with Mass Spectrometry: An Overview;** Cornelis Hop; *Pfizer, Groton, CT*
- TOD pm 03:10 **An Integrated LC-MS-Microcoil NMR System with High Sensitivity for Rapid Structural Elucidation of Small Molecules from Complex Mixtures;** Yiqing Lin<sup>1</sup>; Jimmy Orjala<sup>2</sup>; Paul Vouros<sup>1</sup>; Roger Kautz<sup>1</sup>; <sup>1</sup>*Northeastern University, Barnett Institute, Boston, MA*; <sup>2</sup>*University of Illinois, College of Pharmacy, Chicago, IL*
- TOD pm 03:30 **Detection of Circulating Metabolites of Carbamazepine in Microdosing Studies in Rats using LC-MS/MS;** Carmai Seto<sup>1</sup>; Jinsong Ni<sup>3</sup>; Fred Ouyang<sup>3</sup>; Robert Ellis<sup>1</sup>; Mauro Aiello<sup>1</sup>; Elliott B. Jones<sup>2</sup>; Devin Welty<sup>3</sup>; Andrew Acheampong<sup>3</sup>; <sup>1</sup>*Applied Biosystems/MDS SCIEX, Concord, Canada*; <sup>2</sup>*Applied Biosystems, Foster City, CA*; <sup>3</sup>*Allergan, Irvine, CA*
- TOD pm 03:50 **Discovery and Identification of Low Level Drug Metabolites using a Novel Searching Method Combined with Exact Mass Measurement;** Andrew Pike<sup>1</sup>; Edgar Naegele<sup>2</sup>; Shaun Bilsborough<sup>3</sup>; <sup>1</sup>*Astex Therapeutics Ltd., Cambridge, United Kingdom*; <sup>2</sup>*Agilent Technologies GmbH, Waldbronn, Germany*; <sup>3</sup>*Agilent Technologies UK Ltd., Cheshire, United Kingdom*
- TOD pm 04:10 **A New Strategy for Oxidative Metabolite Identification by QTRAP LC/MS: Use of Multiple Ion Monitoring-Dependent MS/MS Acquisition and Data Mining;** Ming Yao; Li Ma; William G Humphreys; Mingshe Zhu; *Bristol-Myers Squibb, Princeton, NJ*

**TUESDAY AFTERNOON continued**

**2:30 - 4:30 pm  
ION TRAP APPLICATIONS  
Chair: Gavin E. Reid**

Sagamore Ballroom 5-6-7, level two

- TOE pm 02:30 **The Use of Ion Traps Alone and in Hybrid Configurations for Protein Identification, Characterization, and Quantification;** Steven P. Gygi<sup>1</sup>; Bryan A. Ballif<sup>2</sup>; Chunshui Zhou<sup>1</sup>; Stephen J. Elledge<sup>1</sup>; Corey E. Bakalarski<sup>1</sup>; Sean A. Beausoleil<sup>1</sup>; Xue Li<sup>1</sup>; Wilhelm Haas<sup>1</sup>; <sup>1</sup>Harvard Medical School, Boston, MA; <sup>2</sup>University of Vermont, Burlington, VT
- TOE pm 03:10 **Electron Transfer Dissociation, Multi-Stage Activation and Neutral Loss Initiated MS3 utilized in the Characterization of Phosphorylation Sites of Human Kinases;** Martin Hornshaw<sup>1</sup>; Nick Morrice<sup>2</sup>; <sup>1</sup>Thermo Electron, Hemel Hempstead, United Kingdom; <sup>2</sup>MRC Protein Phosphorylation Unit, Dundee, Scotland
- TOE pm 03:30 **H/D Exchange Levels of Gas Phase Cytochrome c Ions Excited in a Linear Quadrupole Ion Trap;** John Wright; D.J. Douglas; University of British Columbia, Vancouver, Canada
- TOE pm 03:50 **Ion Traps and Glycoproteomics: Unraveling Complexities without Chromatography;** Vernon N. Reinhold; David Ashline; Tony Lapadula; Hailong Zhang; University of New Hampshire, Durham, NH
- TOE pm 04:10 **Investigation of Phenyl Radicals' Reactions with Tetrapeptides via Laser-Induced Acoustic Desorption in a FT-ICR Mass Spectrometer;** Steven Habicht; Sen Li; John J. Nash; Hilka I. Kenttamaa; Purdue University, West Lafayette, IN

**2:30 - 4:30 pm  
AMBIENT IONIZATION MASS SPECTROMETRY  
Chair: Jon Williams**

Sagamore Ballroom 3-4, level two

- TOF pm 02:30 **Extending the Range of Applications for the DART Ion Source;** Robert B. Cody; JEOL USA, Inc., Peabody, MA
- TOF pm 02:50 **The Helium Atmospheric Pressure Glow Discharge: a New Ionization Source for the Direct Analysis of Solids, Liquids and Gases;** Francisco J Andrade; Steven J Ray; Michael R Webb; Gary M Hieftje; Department of Chemistry-Indiana University, Bloomington, IN
- TOF pm 03:10 **Desorption-Electrospray Ionization (DESI) Mass Spectrometry: Characterization of Plume and Droplet Interactions Towards Surface Imaging;** Gary A. Valaskovic; New Objective, Inc., Woburn, MA
- TOF pm 03:30 **Simulation of Atmospheric Transport in Desorption Electrospray Ionization;** Anthony B. Costa; R. Graham Cooks; Purdue University, West Lafayette, IN
- TOF pm 03:50 **Analysis of Complex Mixtures using an Atmospheric Solids Analysis Probe (ASAP) Mass Spectrometry;** Barbara S. Larsen; Chris Roe; Karen Block; Ken Dahl; Scott Jackson; Richard McKay; Charles N. McEwen; E I DuPont De Nemours, Wilmington, DE

- TOF pm 04:10 **Desorption Atmospheric Pressure Photoionization;** Tiina Kauppila<sup>1</sup>; Markus Haapala<sup>1</sup>; Jaroslav Pól<sup>1</sup>; Ville Arvola<sup>1</sup>; Ville Saarela<sup>2</sup>; Sami Franssila<sup>2</sup>; Raimo Ketola<sup>1</sup>; Tapio Kotiaho<sup>1</sup>; Risto Kostianen<sup>1</sup>; <sup>1</sup>University of Helsinki, Helsinki, Finland; <sup>2</sup>Helsinki University of Technology, Espoo, Finland

**2:30 - 4:30 pm  
MASS SPECTROMETRY AND HOMELAND SECURITY  
Chair: Paul D'Agostino**

Sagamore Ballroom 1-2, level two

- TOG pm 02:30 **Implementation of DART and DESI on a Fieldable Mass Spectrometer;** J. Mitchell Wells; Adam Keil; Garth E. Patterson; Griffin Analytical Tech., LLC, West Lafayette, IN
- TOG pm 02:50 **Screening Organophosphorus Nerve Agent Degradation Products by Gas Chromatography with Inductively Coupled Plasma Mass Spectrometry;** Douglas D. Richardson; Joseph A. Caruso; University of Cincinnati, Cincinnati, OH
- TOG pm 03:10 **Flow Injection Analysis with APCI-FAIMS-MS, ESI-FAIMS-MS, and APPI-FAIMS-MS for Rapid, Selective Identification of Chemical and Biological Warfare Agents in Food;** Beata Kolakowski<sup>1</sup>; Margaret A. McCooney<sup>1</sup>; Zoltan Mester<sup>1</sup>; Paul A. D'Agostino<sup>2</sup>; <sup>1</sup>National Research Council of Canada, Ottawa, Canada; <sup>2</sup>Defence Research and Development Canada, Suffield, Canada; <sup>3</sup>Canadian Food Inspection Agency, Saskatoon, Canada
- TOG pm 03:30 **Single Particle Aerosol Mass Spectrometry for the Determination of Chemical Warfare Agent Simulants;** George R. Farquar; Audrey N. Martin; David P Ferguson; Eric E. Gard; Matthias Frank; Lawrence Livermore National Laboratory, Livermore, CA
- TOG pm 03:50 **Quantitative Comparison of in vitro Activity of Botulinum Neurotoxin Type A Subtypes by Mass Spectrometry;** Suzanne R. Kalb<sup>1</sup>; Theresa J. Smith<sup>2</sup>; James D. Marks<sup>3</sup>; Karen Hill<sup>4</sup>; Adrian R. Woolfitt<sup>1</sup>; James L. Pirkle<sup>1</sup>; Leonard A. Smith<sup>2</sup>; John R. Barr<sup>1</sup>; <sup>1</sup>CDC, Atlanta, GA; <sup>2</sup>USAMRIID, Ft. Detrick, MD; <sup>3</sup>University of California at San Francisco, San Francisco, CA; <sup>4</sup>Los Alamos National Laboratory, Los Alamos, NM
- TOG pm 04:10 **MALDI-MS Detection of Biological Material from Collected Bioaerosols;** Alton Dugas; Kermit Murray; Louisiana State University, Baton Rouge, LA

**4:45 - 5:30 pm  
AWARD LECTURE**

Exhibit Hall D, Lobby Level

**Recipient of the ASMS Award for a Distinguished Contribution in Mass Spectrometry  
Jesse L. (Jack) Beauchamp, California Institute of Technology  
Ion Cyclotron Resonance for Studies of Ion-Molecule Reactions**

**5:45 - 7:00 pm  
WORKSHOPS**

See schedule on page 18.

**WEDNESDAY MORNING, JUNE 6**

**7:30 – 8:15 am**  
**WAKE UP COFFEE**  
 Outside Exhibit Hall D

**8:15 - 10:15 AM**  
**TOP DOWN 2007:**  
**TANDEM MASS SPECTROMETRY ABOVE 5 kDa**  
**Chair: Neil L. Kelleher**  
 Exhibit Hall D, lobby level

- WOA am 08:15 **Top Down MS Proteomics: Now an Accepted Methodology?** Fred W. McLafferty<sup>1</sup>; Honghai Jiang<sup>1</sup>; Xianglei Kong<sup>1</sup>; Kathrin Breuker<sup>2</sup>; <sup>1</sup>Cornell University, Ithaca, NY; <sup>2</sup>University of Innsbruck, Innsbruck, Austria
- WOA am 08:35 **Top Down MS for Proteotyping Human Beings;** Michael Roth; Bryan A. Parks; Jonathan T. Ferguson; Craig D. Wenger; Neil L. Kelleher; University of Illinois Urbana-Champaign, Urbana, IL
- WOA am 08:55 **Ultra-high Resolution Top Down Fourier-Transform Mass Spectrometry Experiments Reveal Microheterogeneity of Human Salivary Proteins;** Frederic J. Halgand<sup>1</sup>; Sara Bassilian<sup>1</sup>; Puneet Souda<sup>1</sup>; Vlad Zabrouskov<sup>2</sup>; Joseph, A. Loo<sup>3</sup>; Kym, F. Faull<sup>1</sup>; David, T. Wong<sup>4</sup>; Julian, P. Whitelegge<sup>1</sup>; <sup>1</sup>The Pasarow MS Laboratory, UCLA, Los Angeles, CA; <sup>2</sup>ThermoFisher Corp., San Jose, CA; <sup>3</sup>DOE, UCLA, Los Angeles, CA; <sup>4</sup>David Geffen School of Medicine, Los Angeles, CA
- WOA am 09:15 **A Sensitive Top Down and Middle Down Strategy for Analyzing Proteins using Electron Transfer Dissociation;** Namrata D. Udeshi; Yukiko Misawa; Kristie M. Lindsey Rose; An Chi; David Rekosh; Jeffrey Shabanowitz; Marie-Louise Hammarskjold; Donald F. Hunt; University of Virginia, Charlottesville, VA
- WOA am 09:35 **Top-Down Terminal Sequencing with LC/ESI-TOF MS for the Characterization of Therapeutic IgG Antibodies;** Da Ren; Gary Pipes; David Hambly; Dirk Chelius; Pavel Bondarenko; Michael Treuheit; Himanshu Gadgil; Amgen, Seattle, WA
- WOA am 09:55 **Top-Down Proteomics using Matrix Enhanced ISD;** Kevin Demeure; Loïc Quinton; Valérie Gabelica; Edwin De Pauw; Liege University, Liege, Belgium

**8:15 - 10:15 AM**  
**CARBOHYDRATE STRUCTURAL ANALYSIS:**  
**MS<sup>N</sup> VS. ECD/EDD**  
**Chair: Heather Desaire**  
 Wabash Ballroom, lobby level

- WOB am 08:15 **Development of Novel Tools for Mass Spectrometry-Based Carbohydrate Analysis;** Kristina Hakansson; Julie T. Adamson; Yibing Kong; Hye Kyong Kweon; Haichuan Liu; University of Michigan, Ann Arbor, MI
- WOB am 08:35 **Sequential Mass Spectrometry and Accurate Mass Analysis: Uncovering Unique Structures in N-Linked Glycan Samples;** David Ashline; Anthony Lapadula; Vernon Reinhold; The Glycomics Center, University of New Hampshire, Durham, NH

WOB am 08:55 **Comparison of Fragmentation Patterns for Oligosaccharides Obtained with Various MS/MS Methods; Application to Structural Analysis of Unknown Oligosaccharides in Glycoproteins;** Bo Xie; Cheng Zhao; Giuseppe Infusini; Nancy Leymarie; Shiu-Yung Chan; Joseph Zaia; John F. Cipollo; Peter B. O'Connor; Catherine E. Costello; School of Medicine, Boston University, Boston, MA

WOB am 09:15 **Structural Analysis of Chondroitin/Dermatan Sulfate Glycosaminoglycans from Human Decorin by Electrospray Ionization Multiple Stage Mass Spectrometry;** Daniela G. Seidler<sup>1</sup>; Corina Flangea<sup>2</sup>; Andrea Schneider<sup>3</sup>; Alina Serb<sup>4</sup>; Eugen Sisu<sup>4</sup>; Arnd Ingendoh<sup>3</sup>; Alina D. Zamfir<sup>2</sup>; <sup>1</sup>University of Muenster, Muenster, Germany; <sup>2</sup>University "Aurel Vlaicu", Arad, Romania; <sup>3</sup>Bruker Daltonics, Bremen, Germany; <sup>4</sup>University of Medicine and Pharmacy, Timisoara, Romania

WOB am 09:35 **Electron Detachment Dissociation Fourier Transform Mass Spectrometry of Negatively-Charged Oligosaccharides;** Jeremy J. Wolff<sup>1</sup>; Tatiana Larramore<sup>2</sup>; Robert J. Linhardt<sup>2</sup>; Jonathan Amster<sup>1</sup>; <sup>1</sup>University of Georgia, Athens, GA; <sup>2</sup>Rensselaer Polytechnic Institute, Troy, NY

WOB am 09:55 **Negative Ion Nanospray Mass Spectrometry for Rapid Identification of N-Glycans: Identification of New Structures in Several Species;** David J. Harvey<sup>1</sup>; Max D. M. Crispin<sup>1</sup>; Robert B. Sim<sup>1</sup>; Chris N. Scanlan<sup>1</sup>; Yun-Gon Kim<sup>3</sup>; Pauline M. Rudd<sup>2</sup>; Raymond A. Dwek<sup>1</sup>; <sup>1</sup>University of Oxford, Oxford, United Kingdom; <sup>2</sup>Conway Institute, Dublin, Ireland; <sup>3</sup>Seoul National University, Seoul, Korea

**8:15 - 10:15 AM**  
**MS CHARACTERIZATION OF 3D STRUCTURE**  
**Chair: John R. Engen**  
 Room 120-124, lobby level

- WOC am 08:15 **SNAPPshots of Protein Folding: Monitoring Ligand-Induced Folding by Selective Noncovalent Adduct Protein Probing Mass Spectrometry;** Ryan R. Julian; Tony Ly; University of California, Riverside, Riverside, CA
- WOC am 08:35 **Ion Mobility Mass Spectrometry and MS/MS of Non-Covalent Protein:Carbohydrate Complexes Indicate Conformational Differences;** Julie A. Leary<sup>1</sup>; Matthew Schenauer<sup>1</sup>; Iain Campuzano<sup>2</sup>; James Langridge<sup>2</sup>; <sup>1</sup>UC Davis, Davis, CA; <sup>2</sup>Waters, Inc., Altrincham, United Kingdom
- WOC am 08:55 **DXMS Combined with de novo Protein Structure Prediction Facilitates Model Selection;** Lars Malmstroem; Liming Hou; William Atkins; David R. Goodlett; University of Washington, Seattle, WA
- WOC am 09:15 **Footprinting Coupled to UPLC/MS/MS to Map the Interaction Surface between Tif34 and HisTif35 Proteins;** Fabio C Gozzo; Amadeu H Iglesias; Brazilian Synchrotron Light Source, Campinas, Brazil
- WOC am 09:35 **Structure and Dynamics of Regulatory Domains Present in Retroviral RNA;** Arie Hawkins<sup>1</sup>; Eizadora T. Yu<sup>2</sup>; Daniele Fabris<sup>1</sup>; <sup>1</sup>University of Maryland, Baltimore County, Baltimore, MD; <sup>2</sup>Sandia National Laboratories, Livermore, CA



WEDNESDAY MORNING continued

8:15 - 10:15 AM

MS CHARACTERIZATION OF 3D STRUCTURE continued

- WOC am 09:55 **Protein Structure and Conformation Revealed using Sequential Cross-Linker Rate Measurements (SCRaM): Direct Measurement of Inter-Residue Distances and Secondary Structure;** Joseph Schoeniger; Richard Jacobsen; Kenneth Sale; *Sandia National Labs, Livermore, CA*

8:15 - 10:15 AM

METABOLITE IDENTIFICATION USING MS

Chair: Simon J. Gaskell

500 Ballroom, lobby level

- WOD am 08:15 **Metabolic Changes in Plasma Revealed by Targeted MS of Patients Undergoing Planned Heart Attacks;** Ru Wei<sup>1</sup>; Gregory Lewis<sup>2</sup>; Marc S. Sabatine<sup>2</sup>; Emerson Liu<sup>2</sup>; Marco Cyrille<sup>2</sup>; Maryann Martinovic<sup>2</sup>; Laurie Farrell<sup>2</sup>; Xu Shi<sup>2</sup>; Aarti Asnani<sup>2</sup>; Arvind Ramanathan<sup>1</sup>; Oded Shaham<sup>1</sup>; Gabriel Berriz<sup>3</sup>; Frederick P. Roth<sup>3</sup>; Igor Palacios<sup>3</sup>; Vamsi K. Mootha<sup>1</sup>; Michael A. Fifer<sup>2</sup>; Steven A. Carr<sup>1</sup>; Robert E. Gerszten<sup>2</sup>; <sup>1</sup>*Broad Institute, Cambridge, MA*; <sup>2</sup>*Massachusetts General Hospital, Boston, MA*; <sup>3</sup>*Harvard Medical School, Boston, MA*
- WOD am 08:35 **Metabolomics Biomarkers for Western Life Style Diseases and Anti-Diabetic Drug Action;** Klaus M. Weinberger; Steven L. Ramsay; Armin Graber; *Biocrates Life Sciences, Innsbruck, Austria*
- WOD am 08:55 **Analysis of Isoprostane Biomarkers of Oxidative Stress using a Novel UPLC-LC/ESI-MS/MS Method;** Judit Sztaray; Sarah P. Young; Dora Il'yasova; David S. Millington; *Duke University Medical Center, Durham, NC*
- WOD am 09:15 **Metabolic Analysis of Tumor Progression;** Norma H. Pawley; Munehiro Teshima; James P. Freyer; Clifford J. Unkefer; Pat J. Unkefer; *Los Alamos National Laboratory, Los Alamos, NM*
- WOD am 09:35 **Application of Advanced Statistical Methods and Ion Mobility Mass Spectrometry to Metabonomic/Metabolomic Studies;** John Shockcor; Jose Castro-Perez; Michael Balogh; Kate Yu; *Waters Corp., Milford, MA*
- WOD am 09:55 **Acyl-Coenzyme A Profiles In Wild Type and Short Chain Hydroxyacyl-CoenzymeA Dehydrogenase Defective Mouse Liver By Flow Injection Tandem Mass Spectrometry;** Jie Chen<sup>1</sup>; Srinivas Narayan<sup>1</sup>; Arnold Strauss<sup>2</sup>; Michael Bennett<sup>1</sup>; <sup>1</sup>*Children's Hospital of Philadelphia, Philadelphia, PA*; <sup>2</sup>*Vanderbilt University Medical Center, Nashville, TN*

8:15 - 10:15 AM

ESI OF SMALL MOLECULES

Chair: Nadja Cech

Sagamore Ballroom 5-6-7, level two

- WOC am 08:15 **Highlights from Small Molecule Electrospray Mass Spectrometry;** Jack Henion; *Advion BioSciences, Inc, Ithaca, NY*
- WOC am 08:35 **Stercobilin: A Possible Biomarker for Autism?** Troy D. Wood; Christopher L. Pennington; Yong-Seok Choi; *University at Buffalo, Buffalo, NY*
- WOC am 08:55 **Exploration of the Equimolar Response Phenomenon in Ultra-Low Flow Nano Electrospray: Limits and Applications;** Lucas Utley<sup>1</sup>; Camelia Gliser<sup>1</sup>; Mike Lee<sup>2</sup>; Gary Valaskovic<sup>3</sup>; <sup>1</sup>*AstraZeneca Pharmaceuticals, Waltham, MA*; <sup>2</sup>*Milestone Development Services, Newtown, PA*; <sup>3</sup>*New Objective Inc., Woburn, MA*
- WOC am 09:15 **Unusual Odd-electron Fragments from Even-Electron Protonated Alkylprodiginine Precursors using Positive Ion Electrospray Tandem Mass Spectrometry;** Kan Chen<sup>1</sup>; Yang Cai<sup>2</sup>; Bernard B. Rees<sup>1</sup>; Gregory L. Challis<sup>3</sup>; Richard B. Cole<sup>1</sup>; <sup>1</sup>*University of New Orleans, New Orleans, LA*; <sup>2</sup>*Children's Hospital, New Orleans, LA*; <sup>3</sup>*University of Warwick, Coventry, UK*
- WOC am 09:35 **Metabolite Profiling by Use of Automated Chip Based Nanospray of Fractions Detected by Offline Scintillation Counting;** Jonathan L. Josephs<sup>1</sup>; Mary F. Grubb<sup>1</sup>; Gary A. Schultz<sup>2</sup>; <sup>1</sup>*Bristol-Myers Squibb, Pennington, NJ*; <sup>2</sup>*Advion, Ithaca, NY*
- WOC am 09:55 **LC-MS-MS Determination of Antioxidant Activity of Catechins in Cocoa Powder;** Angela Calderon<sup>1</sup>; Richard B. van Breemen<sup>1</sup>; W. J. Hurst<sup>2</sup>; <sup>1</sup>*University of Illinois College of Pharmacy, Chicago, IL*; <sup>2</sup>*The Hershey Company, Hershey, PA*

8:15 - 10:15 AM

PORTABLE MS INSTRUMENTS

Chair: R. Tim Short

Sagamore Ballroom 3-4, level two

- WOC am 08:15 **Atmospheric Pressure Interface for a Handheld Ion Trap Mass Spectrometer: Electrospray Ionization and Desorption Electrospray Ionization;** Adam Keil; Nari Tataly; Heriberto Hernandez; Robert Noll; Zheng Ouyang; R. Graham Cooks; *Purdue University, West Lafayette, IN*
- WOC am 08:35 **Development of a Light-Weight Integrated Direct Analysis Mass Spectrometer;** Garth Patterson<sup>1</sup>; John Grossenbacher; Mitch Wells; Adam Keil; Mark Gregory; Jason Springston; Dennis Barket; *Griffin Analytical Technologies, West Lafayette, IN*
- WOC am 08:55 **Field Portable Toroidal Gas Chromatograph-Toroidal Ion Trap Mass Spectrometer System;** Samuel E. Tolley<sup>1</sup>; Jesse A. Contreras<sup>2</sup>; Jacolin A. Murray<sup>2</sup>; H. Dennis Tolley<sup>2</sup>; James R. Oliphant<sup>1</sup>; Stephen A. Lammert<sup>1</sup>; Edgar D. Lee<sup>1</sup>; Douglas W. Later<sup>1</sup>; Milton L. Lee<sup>2</sup>; <sup>1</sup>*Torion Technologies, Inc, Pleasant Grove, UT*; <sup>2</sup>*Brigham Young University, Provo, Utah*

**WEDNESDAY MORNING continued**

**8:15 - 10:15 AM  
PORTABLE MS INSTRUMENTS continued**

- WOF am 09:15 **Mars Organic Molecule Analyzer (MOMA): An Investigation of the Potential for Life on Mars using Ion Trap Mass Spectrometry;** Theresa Evans-Nguyen<sup>1</sup>; Justin Muratore<sup>1</sup>; William Brinckerhoff<sup>2</sup>; Luann Becker<sup>3</sup>; Robert J. Cotter<sup>1</sup>; Vladimir Doroshenko<sup>4</sup>; <sup>1</sup>*Johns Hopkins University; Pharmacology, Baltimore, MD*; <sup>2</sup>*JHU - Applied Physics Laboratory, Laurel, MD*; <sup>3</sup>*The University of California at Santa Barbara, Santa Barbara, CA*; <sup>4</sup>*MassTech, Inc., Columbia, MD*
- WOF am 09:35 **Demonstration of a Microfabricated Carbon Nanotube Ionization Source for a Miniaturized Mass Spectrometer;** Charles B Parker<sup>1</sup>; Srividya Natarajan<sup>1</sup>; Scott D Wolter<sup>1</sup>; Jeffrey T Glass<sup>1</sup>; Jeffrey R Piascik<sup>2</sup>; Kristin H Gilchrist<sup>2</sup>; Brian R Stoner<sup>2</sup>; Christopher A Bower<sup>3</sup>; <sup>1</sup>*Duke University, Durham, NC*; <sup>2</sup>*RTI International, Research Triangle Park, NC*; <sup>3</sup>*Semprius, Inc., Durham, NC*
- WOF am 09:55 **Microfabrication of  $\mu$ -Cylindrical Ion Trap Mass Spectrometer Arrays;** F.H.W. van Amerom<sup>1</sup>; A. Chaudhary<sup>1</sup>; R.T. Short<sup>2</sup>; <sup>1</sup>*University of South Florida, St Petersburg, FL*; <sup>2</sup>*SRI-St. Petersburg, St. Petersburg, FL*

**8:15 - 10:15 AM  
METAL ION ACTIVATED DISSOCIATION  
Chair: Chrys Wesdemiotis  
Sagamore Ballroom 1-2, level two**

- WOG am 08:15 **Histidine Radical Cation Isomer Control via Auxiliary Ligand (L) Selection in the Dissociation of  $[\text{Cu}^{\text{II}}(\text{L})(\text{His})]^{+\text{dot}2+}$  Complexes;** Yuyong Ke; Junfang Zhao; Udo H. Verkerk; Alan C. Hopkinson; K. W. Michael Siu; *York University, Toronto, Canada*
- WOG am 08:35 **Gas-Phase Ionic Solutions;** Bridgette J. Duncombe<sup>1</sup>; Khadar Duale<sup>2</sup>; Bohan Wu<sup>2</sup>; Annabelle Buchanan-Smith<sup>2</sup>; Anthony J. Stace<sup>2</sup>; <sup>1</sup>*University of Edinburgh, Edinburgh, United Kingdom*; <sup>2</sup>*University of Nottingham, Nottingham, United Kingdom*
- WOG am 08:55 **Suppression of Oligonucleotide Fragmentation in MALDI-MS through Sodium Adduct Formation;** Oddur Ingolfsson; Michal Stano; Helga Dogg Flosadottir; *University of Iceland, Reykjavik, Iceland*
- WOG am 09:15 **Gas-Phase Behavior of Singly and Doubly-Charged Coppered Peptide Complexes toward Low Energy Collisions;** Carlos Afonso; Françoise Fournier; Jean-claude Tabet; *University P. and M. Curie, Paris Cedex O5, France*
- WOG am 09:35 **Metal Ion Binding Affinities and Activation of Phosphate Esters Studied by Threshold Collision-Induced Dissociation and Ab Initio Theory;** Mary T. Rodgers; Chunhai Ruan; Hai Huang; *Wayne State University, Detroit, MI*
- WOG am 09:55 **Energetics and Dynamics of Electron Transfer and Proton Transfer in Dissociation of Metal<sup>III</sup> (salen)-Peptide Complexes in the Gas-Phase;** Julia Laskin<sup>1</sup>; Zhibo Yang<sup>1</sup>; Corey Lam<sup>2</sup>; Ivan Chu<sup>2</sup>; <sup>1</sup>*Pacific Northwest National Laboratory, Richland, WA*; <sup>2</sup>*University of Hong Kong, Hong Kong, China*

**10:15 am – 2:30 pm  
POSTER SESSION AND EXHIBITS**

- 7:30 – 8:00 am ..... Set up Wednesday posters (page 95)  
10:15 am – 2:30 pm ..... All Wednesday poster authors present  
11:45 am – 12:15 pm ..... Lunch break for odd-numbered posters  
12:15 – 12:45 pm ..... Lunch break for even-numbered posters  
7:30 – 8:00 pm ..... Remove all Wednesday posters

**12:45 – 2:00 pm  
INTEREST GROUP MEETING AND WORKSHOP  
See schedule on page 18.**

**WEDNESDAY AFTERNOON**

**2:30 - 4:30 PM  
DISCOVERING PEPTIDES AND PROTEINS AS  
BIOMARKERS  
Chair: Michael Siu  
Exhibit Hall D, Lobby Level**

- WOA pm 02:30 **A Novel Multiplexed Quantitative Proteomics Platform for the Systematic Discovery of Salivary Biomarkers for Early Detection of Oral Cancer;** Timothy J. Griffin<sup>1</sup>; Hongwei Xie<sup>1</sup>; Getiria Onsongo<sup>1</sup>; Archana Mohan<sup>1</sup>; Jonathan Popko<sup>1</sup>; John V. Carlis<sup>1</sup>; Robert J. Griffin<sup>2</sup>; Frank G. Ondrey<sup>1</sup>; Nelson L. Rhodus<sup>1</sup>; <sup>1</sup>*University of Minnesota, Minneapolis, MN*; <sup>2</sup>*University of Arkansas for Medical Sciences, Little Rock, AR*
- WOA pm 02:50 **Glycoprotein Microarrays with Multi-Lectin Detection: Lectin Binding Patterns as a Tool for Classifying Normal, Chronic Pancreatitis and Pancreatic Cancer Sera;** David M. Lubman; Tasneem H. Patwa; Jia Zhao; David E. Misek; Michelle A. Anderson; Diane M. Simeone; *University of Michigan, Ann Arbor, MI*
- WOA pm 03:10 **Discovery and Verification of Potential Cancer Biomarkers: An Integration of QqTOF, Multiple-Reaction Monitoring and Immunohistochemistry;** Adrian M. Taylor; Leroi Desouza; K.W. Michael Siu; *York University, Toronto, Canada*
- WOA pm 03:30 **The Transition from Global Proteomics to Targeted MRM Analysis for Validation of Changes in hESCs During Noggin- and BMP4-Induced Differentiation;** Anastasia K. Yocum<sup>1</sup>; Christy L. Hunter<sup>2</sup>; K. Sue O'Shea<sup>1</sup>; Philip C. Andrews<sup>1</sup>; <sup>1</sup>*University of Michigan, Ann Arbor, MI*; <sup>2</sup>*Applied Biosystems, Foster City, CA*
- WOA pm 03:50 **In-Depth Profiling of the Cerebrospinal Fluid Peptidome and Proteome - a Quest for Potential Regulatory Neuropeptides and Biomarkers;** Alexandre Zougman<sup>1</sup>; Chanchal Kumar<sup>1</sup>; Alexandre Podtelejnikov<sup>2</sup>; Matthias Mann<sup>1</sup>; <sup>1</sup>*Max-Planck Institute for Biochemistry, Martinsried, Germany*; <sup>2</sup>*proxeon Biosystems, Odense, Denmark*
- WOA pm 04:10 **Comparison of Three Mass Spectrometry-Based Strategies for Targeted Protein Pullout;** Margareta Ramström; Karin Larsson; Mathias Uhlén; Henrik Wernérus; Sophia Hober; *Royal Institute of Technology, Stockholm, Sweden*

WEDNESDAY AFTERNOON continued

**2:30 - 4:30 PM**  
**METABOLITE IDENTIFICATION:**  
**BEYOND DRUG DISCOVERY**  
**Chair: Ragu Ramanathan**  
 Wabash Ballroom, lobby level

- WOB pm 02:30 **Early Assessment of Human Metabolism: Why, How, Challenges and Opportunities;** Swapan K. Chowdhury; *Schering-Plough, Kenilworth, NJ*
- WOB pm 03:10 **In vitro Metabolism of the ERBB2 Receptor Tyrosine Kinase Inhibitor: Identification of Metabolites by LC/MS/MS, LC-NMR and Wet Chemistry Techniques;** Chandra Prakash; Zhuang Miao; Jie Chen; Samit Bhattacharya; Thomas O'Connell; *Pfizer, Groton, CT*
- WOB pm 03:30 **Ion Mobility Mass Spectrometry a Powerful Tool for Removal of Endogenous Interferences for Metabolite Profiling;** Jose Castro-Perez<sup>1</sup>; John Shockcor<sup>1</sup>; Kate Yu<sup>1</sup>; Kevin Bateman<sup>2</sup>; <sup>1</sup>*Waters Corp., Milford, MA*; <sup>2</sup>*Merck Frosst, Kirkland, Montreal*
- WOB pm 03:50 **Comparison of DART Ionization to Traditional LC/MS Methods for the Analysis of Metabolites in Human Urine;** Jennifer L. Seymour; Amy Wang; Michael Morris; Abigail Marcus; John Kratz; Eric Yang; Tom Neiss; *GlaxoSmithKline, King of Prussia, PA*
- WOB pm 04:10 **A Statistical Based Approach in Metabolite Identification by High Mass Accuracy MSn Analysis;** Gérard Hopfgartner<sup>1</sup>; Lekha Sleno<sup>1</sup>; Neil Loftus<sup>2</sup>; John Warrander<sup>2</sup>; Simon Ashton<sup>2</sup>; <sup>1</sup>*Life Sciences Mass Spectrometry, Geneva, Switzerland*; <sup>2</sup>*Shimadzu ISS, Manchester, United Kingdom*

**2:30 - 4:30 PM**  
**CHARACTERIZING BIOPOLYMER CONFORMATIONS AND DYNAMICS**  
**Chair: Robert Hettich**  
 Room 120-124, lobby level

- WOC pm 02:30 **Hydrogen / Deuterium Exchange and Crystallography Reveal that Protein Dynamics and Structure Control PPAR Gamma Mediated Transcriptional Activity;** Michael J. Chalmers; John B. Bruning; Scott A. Busby; Swati Prasad; Bruce D. Pascal; Mark R. Southern; Kendal W. Nettles; Patrick R. Griffin; *Scripps Florida, Jupiter, FL*
- WOC pm 02:50 **Analysis of Structure in Refolding Intermediates of Indole-3-Glycerol Phosphate Synthase (sIGPS), a TIM Barrel Protein, by Hydrogen Exchange Mass Spectrometry;** Zhenyu Gu; Jill A. Zitzewitz; C. Robert Matthews; *University of Massachusetts, Medical School., Worcester, MA*
- WOC pm 03:10 **Conformation-Specific Characterization of Protein Higher Order Structure using Hydrogen Exchange and Tandem Mass Spectrometry;** Rinat R. Abzalimov; Igor A. Kaltashov; *University of Massachusetts, Amherst, MA*

- WOC pm 03:30 **Combining H/D Exchange and Native Electrospray Mass Spectrometry for Unraveling the Unfolding Mechanism of B.subtilis NAD Synthase;** Anton Poliakov; Irina Protasevich; Peter E Prevelige; Christie Brouillette; *University of Alabama at Birmingham, Birmingham, AL*

- WOC pm 03:50 **Oxidative Surface Mapping Generates Biophysical Constraints for Molecular Dynamics Simulations: An Integrated Strategy for Studying the Tanford Transition in Beta-Lactoglobulin;** Carlee McClintock<sup>1</sup>; Kanan Vyas<sup>2</sup>; Christine Shook<sup>2</sup>; Robert L. Hettich<sup>1</sup>; <sup>1</sup>*Oak Ridge National Lab, Oak Ridge, TN*; <sup>2</sup>*University of Tennessee, Knoxville, TN*

- WOC pm 04:10 **Mapping the Structure and Dynamics of Dark-And Light-State Bovine Rhodopsin by Synchrotron Radiolysis and High Resolution Mass Spectrometry;** Sayan Gupta; Beata Jastrzebska; Rhijuta D'Mello; Krzysztof Palczewski; Mark Chance; *CWRU, Cleveland, OH*

**2:30 - 4:30 PM**  
**MS CHARACTERIZATION OF MEMBRANE PROTEINS**  
**Chair: R. Marshall Pope**  
 500 Ballroom, lobby level

- WOD pm 02:30 **Tracking the Movement of Proteins between Sub-Cellular Structures by Dynamic LOPIT;** Kathryn S Lilley<sup>1</sup>; Denise J. L. Tan<sup>1</sup>; Alfonso Martinez Arias<sup>1</sup>; Paul Bertone<sup>2</sup>; Heidi Dvinge<sup>2</sup>; <sup>1</sup>*University of Cambridge, Cambridge, United Kingdom*; <sup>2</sup>*EMBL-european Bioinformatics Institute, Cambridge, UK*
- WOD pm 02:50 **A Proteomic Method for the Enrichment of Membrane Embedded Proteins and Identification of Transmembrane Domains;** Adele Blackler<sup>1</sup>; Mark Ladinsky<sup>2</sup>; Jessica Krank<sup>1</sup>; Robert Murphy<sup>1</sup>; Christine Wu<sup>1</sup>; <sup>1</sup>*University of Colorado HSC, Aurora, CO*; <sup>2</sup>*University of Colorado Boulder, Boulder, CO*
- WOD pm 03:10 **Microheterogeneity of Integral Membrane Proteins Resolved by Top-Down Fourier-Transform Mass Spectrometry;** Julian Whitelegge; Frederic Halgand; Sara Bassilian; Puneet Souda; Kym Faull; *University of California LA, Los Angeles, CA*
- WOD pm 03:30 **Targeted MS Analysis of  $\beta$ -Cell Surface Proteins;** Alexander Schmidt<sup>1</sup>; Lukas Mueller<sup>1</sup>; Nils Gehlenborg<sup>2</sup>; Katrin Eckhardt<sup>3</sup>; Carsten Danzer<sup>3</sup>; Bernd Wollscheid<sup>1</sup>; Bruno Doman<sup>1</sup>; Ruedi Aebersold<sup>1</sup>; <sup>1</sup>*Institute of Molecular Systems Biology, ETH, Zurich, Switzerland*; <sup>2</sup>*European Bioinformatics Institute, Cambridge, UK*; <sup>3</sup>*Institute of Cell Biology, ETH, Zurich, Switzerland*
- WOD pm 03:50 **High Fidelity for Intact Analysis of Hydrophobic Proteins;** Mahbod R. Hajivandi; Xiquan Liang; Marshall Pope; *Invitrogen, Mass Spectrometry, R & D, Carlsbad, CA*
- WOD pm 04:10 **Identifying Peptides with Higher Order Charge-States: An Optimized Approach for Characterizing Membrane Proteins;** Scott A. Shaffer; Alexander Scherl; Byron Gallis; Jocelyn Aker; Gregory Taylor; Mitchell Brittnacher; David R. Goodlett; *University of Washington, Seattle, WA*

**WEDNESDAY AFTERNOON continued**

**2:30 - 4:30 PM**  
**PEPTIDE ION FRAGMENTATION MECHANISMS:  
 CID AND ECD**  
**Chair: Julia Laskin**

Sagamore Ballroom 5-6-7, level two

- WOE pm 02:30 **Gas Phase Peptide Fragmentation: From Understanding the Fundamentals to the Design of New Proteomics Tools;** Richard A. J. O'Hair; *University of Melbourne, Victoria, Australia*
- WOE pm 02:50 **Characterizing the Fragmentation Behavior of Glycosylated Peptide Ions Derived from Non-specific Proteolysis;** Richard R. Seipert; Eric D. Dodds; Brian H. Clowers; Sean Beecroft; Carlito B. Lebrilla; *University of California Davis, Davis, CA*
- WOE pm 03:10 **Combination of CID and SID with H/D Exchange to Probe the Gas-Phase Intramolecular Rearrangement Process of Protonated Peptides;** Asiri Galhena; Arpad Somogyi; Brittany Perkins; Vicki. H. Wysocki; *University of Arizona, Tucson, AZ*
- WOE pm 03:30 **Generation and Dissociation of Cationic and Anionic Radical Peptides;** Ivan K. Chu<sup>2</sup>; Corey N.W Lam<sup>2</sup>; Zhibo Yang<sup>1</sup>; Julia Laskin<sup>1</sup>; <sup>1</sup>*Pacific Northwest National Laboratory, Richland, WA*; <sup>2</sup>*The University of Hong Kong, Hong Kong, China*
- WOE pm 03:50 **Dissociations of  $\beta$ -Alanine Radicals following Femtosecond Electron Transfer;** Frantisek Turecek; *University of Washington, Seattle, WA*
- WOE pm 04:10 **Sources of Variation in VUV Photofragmentation Studies of Peptide Ions;** Matthew S. Thompson; James P. Reilly; *Indiana University, Bloomington, IN*

**2:30 - 4:30 PM**  
**NOVEL MASS SPECTROMETRY INSTRUMENTATION**

**Chair: Steve Lammert**

Sagamore Ballroom 3-4, level two

- WOF pm 02:30 **Utilizing an Electrospray Membrane Probe to Explore Fundamental Mechanisms underlying Electrospray Ionization in Mass Spectrometry;** Craig M. Whitehouse; Thomas P. White; *Analytica of Branford, Inc., Branford, CT*
- WOF pm 02:50 **A Gas Ion Separator for Improved Collection of Ions Desorbed from Surfaces at Ambient Pressure;** Brian Musselman; Joseph Tice; Elizabeth Crawford; Douglas Simmons; *IonSense, Inc., Saugus, MA*
- WOF pm 03:10 **Structure and Performance of PCB Ion Trap Mass Spectrometer(PCBITMS);** Gong-Yu Jiang<sup>1</sup>; Xiao-Xu Li<sup>1</sup>; An Hu<sup>1</sup>; Chan Luo<sup>1</sup>; Peng Yang<sup>1</sup>; Xian-Nian Liu<sup>1</sup>; Zi-Guo Dai<sup>1</sup>; Fu-Xing Xu<sup>1</sup>; Li Ding<sup>2</sup>; Chuan-Fan Ding<sup>1</sup>; <sup>1</sup>*Chemistry Dept., Fudan University, China, Shanghai, China*; <sup>2</sup>*Shimadzu Research Laboratory (Europe), Manchester, United Kingdom*
- WOF pm 03:30 **The Halo Ion Trap Mass Analyzer;** Daniel E. Austin<sup>1</sup>; Miao Wang<sup>1</sup>; Samuel E. Tolley<sup>2</sup>; Aaron R. Hawkins<sup>1</sup>; Alan L. Rockwood<sup>2</sup>; Edgar D. Lee<sup>2</sup>; H. Dennis Tolley<sup>1</sup>; Milton L. Lee<sup>1</sup>; <sup>1</sup>*Brigham Young University, Provo, UT*; <sup>2</sup>*Torion, Provo, UT*; <sup>3</sup>*ARUP Inst. for Clinical and Experimental Pathology, Salt Lake City, UT*

- WOF pm 03:50 **Pressure-Insensitive Bipolar Ion Detector (BID) Based on Sequential Conversion Reaction;** Yi-sheng Wang; Ming-Hsin Li; Chung-Hsuan Chen; Yuan Tseh Lee; *Academia Sinica, Taipei, TAIWAN*
- WOF pm 04:10 **Multiplexed Ion Mobility Spectrometry - Orthogonal Time-of-Flight Mass Spectrometry;** Mikhail Below; Richard Smith; *Pacific Northwest National Laboratory, Richland, WA*

**2:30 - 4:30 PM**  
**MS IN ELEMENTAL & METALLOMIC ANALYSES**

**Chair: David W. Koppenaal**

Sagamore Ballroom 1-2, level two

- WOG pm 02:30 **Isotope Dilution Laser Ablation ICP-MS for Direct and Accurate Determination of Trace Elements in Powdered Coal Samples;** Klaus G. Heumann<sup>1</sup>; Sergei Boulyga<sup>2</sup>; Jens Heilmann<sup>1</sup>; <sup>1</sup>*University of Mainz, Mainz, Germany*; <sup>2</sup>*University of Natural Resources, Vienna, Austria*
- WOG pm 02:50 **Development of an Inductively Coupled Plasma/Electrospray Ionization Dual-Source Time-of-Flight Mass Spectrometer for Rapid Speciation and Metallomic Analysis;** Duane A. Rogers; Steven J. Ray; Gary M. Hieftje; *Indiana University, Bloomington, IN*
- WOG pm 03:10 **Resonance Ionization Mass Spectrometry Analysis of Elemental Concentrations in Solar Wind Collectors of the Genesis Spacecraft;** Igor Vervovkin<sup>1</sup>; Emil Tripa<sup>1</sup>; Michael Savina<sup>1</sup>; Michael Pellin<sup>1</sup>; Donald Burnett<sup>2</sup>; <sup>1</sup>*Argonne National Laboratory, Argonne, IL*; <sup>2</sup>*California Institute of Technology, Pasadena, CA*
- WOG pm 03:30 **Molecular Characterization and Reactivity of Dissolved Organic Matter along a River to Ocean Transect by High Resolution Electrospray Ionization FT-ICR-MS;** Rachel L. Sleighter; Susan A. Hatcher; Patrick G. Hatcher; *Old Dominion University, Norfolk, VA*
- WOG pm 03:50 **Nano-Electrospray Ion Mobility Separations On-Line with Inductively Coupled Plasma Mass Spectrometry for Detecting Metal-Containing Biomolecules (8 kDa to 80 MDa);** Spiros Pergantis; *University of Crete, Heraklion, Greece*
- WOG pm 04:10 **Coupling of an Atmospheric-Pressure Glow Discharge to a Mattauch-Herzog Mass Spectrograph with Faraday-Strip Array Multichannel Detection;** Gregory D. Schilling<sup>1</sup>; Francisco J. Andrade<sup>1</sup>; Steven J. Ray<sup>1</sup>; Roger P. Sperline<sup>2</sup>; M. Bonner Denton<sup>2</sup>; Charles J. Barinaga<sup>3</sup>; David W. Koppenaal<sup>3</sup>; Gary M. Hieftje<sup>1</sup>; <sup>1</sup>*Indiana University, Bloomington, IN*; <sup>2</sup>*University of Arizona, Tucson, AZ*; <sup>3</sup>*Pacific Northwest National Laboratory, Richland, WA*

**4:45 - 5:30 pm**  
**AWARD LECTURE**  
**Recipient of the Biemann Medal**  
 Exhibit Hall D, Lobby Level

**Roman Zubarev, Uppsala University**  
**Electron Capture Dissociation for MS/MS**

**5:30 - 6:00 pm**  
**ASMS MEETING, Raffle, Wine, Beer**  
 Exhibit Hall D, Lobby Level

THURSDAY MORNING, JUNE 7

7:30 – 8:15 am  
WAKE UP COFFEE  
Outside Exhibit Hall D

8:15 - 10:15 am  
MS STRATEGIES IN THE DETERMINATION OF  
PHOSPHORYLATION SITES

Chair: Pierre Thibault  
Exhibit Hall D, Lobby Level

- ThOA am 08:15 **Phosphopeptide Analysis by Mass Spectrometry: Trends, Technologies and Challenges**; Ole N. Jensen; *Univ. of Southern Denmark, Odense, Denmark*
- ThOA am 08:35 **Detection of Protein Phosphorylation Sites using  $\gamma$ [<sup>18</sup>O<sub>4</sub>]-ATP and Mass Spectrometry**; Timothy D. Veenstra<sup>1</sup>; Zhaojing Meng<sup>1</sup>; Andrew G. Jobson<sup>2</sup>; Yves Pommier<sup>2</sup>; Ming Zhou<sup>1</sup>; <sup>1</sup>SAIC-Frederick, Frederick, MD; <sup>2</sup>National Cancer Institute, Bethesda, MD
- ThOA am 08:55 **Quantitative Proteomics for Protein Complex Study: Determination of True Protein Partners and Characterization of their Phosphorylation Sites**; Delphine Pflieger<sup>1</sup>; Martin Juenger<sup>2</sup>; Markus Mueller<sup>2</sup>; Oliver Rinner<sup>2</sup>; Hookeun Lee<sup>2</sup>; Peter Gehrig<sup>3</sup>; Ruedi Aebersold<sup>2</sup>; <sup>1</sup>LAMBE, CNRS, EVRY, France; <sup>2</sup>Institute for Molecular Systems Biology, ETH, Zürich, Switzerland; <sup>3</sup>FGCZ, University of Zürich, Zürich, Switzerland
- ThOA am 09:15 **Enrichment and Characterization of Histone H1 Phosphorylation Isoforms in Chemoprevention of Acute Myeloid Leukemia**; Liwen Wang; Chen Ren; Shujun Liu; Hua Xu; Guido Marcucci; Michael A Freitas; *Ohio State University, Columbus, OH*
- ThOA am 09:35 **A New Phosphoproteomic Strategy – Separation of Mono- from Multi-Phosphorylated Peptides Combined with Optimized MS3 mass Spectrometric Analysis**; Tine E. Thingholm; Ole N. Jensen; Martin R. Larsen; *University of Southern Denmark, Odense, Denmark*
- ThOA am 09:55 **The Cell Cycle Dependent Phosphoproteome and Proteome Analyzed by Quantitative Proteomics**; Jesper V. Olsen; Michiel Vermeulen; Anna Santamaria; Florian Gnad; Chanchal Kumar; Jürgen Cox; Erich A. Nigg; Matthias Mann; *Max-Planck-Institute for Biochemistry, Martinsried (near Munich), Germany*

8:15 - 10:15 am  
NEW ADVANCES IN CLINICAL MASS SPECTROMETRY

Chair: David S. Millington  
Wabash Ballroom, lobby level

- ThOB am 08:15 **Global NanoLC Microchip Profiling of Human Serum Oligosaccharides**; Caroline S. Chu<sup>1</sup>; Milady R. Niñonuevo<sup>1</sup>; Patrick D. Perkins<sup>2</sup>; Hongfeng Yin<sup>2</sup>; Kevin Killeen<sup>2</sup>; Rudolf Grimm<sup>2</sup>; Carlito B. Lebrilla<sup>1</sup>; <sup>1</sup>University California, Davis, Davis, CA; <sup>2</sup>Agilent Technologies, Santa Clara, CA
- ThOB am 08:35 **Large-scale Identification of Exfoliated Cellular Proteins in Whole Saliva from Oral Cancer Patients via Value-Added Three-Dimensional Peptide Separation and MS/MS**; Hongwei Xie<sup>1</sup>; Getiria Onsongo<sup>1</sup>; Jonathan

Popko<sup>1</sup>; John V. Carlis<sup>1</sup>; Robert J. Griffin<sup>2</sup>; Nelson L. Rhodus<sup>1</sup>; Timothy J. Griffin<sup>1</sup>; <sup>1</sup>University of Minnesota, Twin Cities, Minneapolis, MN; <sup>2</sup>University of Arkansas for Medical Sciences, Little Rock City, AK

- ThOB am 08:55 **Quantitative Analysis of Five HIV-1 Protease Inhibitors in Cell Lysates by MALDI-FTICR Mass Spectrometry**; Jeroen J.A. van Kampen<sup>2</sup>; Peter C. Burgers<sup>2</sup>; Ronald de Groot<sup>1</sup>; Albert D.M.E. Osterhaus<sup>2</sup>; Esther J. Verschuren<sup>2</sup>; Rob A. Gruters<sup>2</sup>; Theo M. Luider<sup>2</sup>; <sup>1</sup>UMC st. Radboud, Nijmegen, the Netherlands; <sup>2</sup>Erasmus Medical Center, Rotterdam, the Netherlands
- ThOB am 09:15 **Biosynthesis of [<sup>15</sup>N]labeled Deoxycytosine and Methyldeoxycytosine for Use as Internal Standards for Determining Percentage DNA Methylation by LC-MS/MS**; Eoin P. Quinlivan; Jesse F Gregory; *University of Florida, Gainesville, FL*
- ThOB am 09:35 **Detection, Characterization, and Monitoring of Emerging Influenza Virus Genotypes by Mass Spectrometry**; Steven Hofstadler; Ranga Sampath; Vanessa Harpin; Christian Massire; Larry Blyn; Mark Eshoo; Thomas Hall; Amy Schink; Jared Drader; James Hannis; Maria Tobarmosquera; David Ecker; *IBIS Biociences, Carlsbad, CA*
- ThOB am 09:55 **Measuring Endogenous Estrogens and Estrogen Metabolites in Human Peritoneal Fluid by Liquid Chromatography-Tandem Mass Spectrometry**; Xia Xu<sup>1</sup>; Essam el-dine R. Othman<sup>2</sup>; Daniela Hornung<sup>2</sup>; Ayman Al-Hendy<sup>2</sup>; Timothy D. Veenstra<sup>1</sup>; <sup>1</sup>SAIC-Frederick, Frederick, MD; <sup>2</sup>University of Texas Medical Branch, Galveston, TX; <sup>3</sup>University of Schleswig-Holstein, Lünebeck, Germany

8:15 - 10:15 am  
NON-COVALENT INTERACTIONS

Chair: Mary T. Rodgers  
Room 120-124, lobby level

- ThOC am 08:15 **Noncovalent Interactions between Alkali Cations and Amino Acids: Effects of the Side Chain**; Peter B. Armentrout; Amy Heaton; Sha Ye; Robert M. Moision; Amy Clark; *University of Utah, Salt Lake City, UT*
- ThOC am 08:35 **Experimental and Theoretical Studies of the Structures and Interactions of Vancomycin Antibiotics with Cell Wall Analogues Peptides**; Zhibo Yang; Julia Laskin; *Pacific Northwest National Laboratory, Richland, WA*
- ThOC am 08:55 **Mass Spectrometry, Electron Affinities and Non-Covalent Interactions of DNA Bases and Base Pairs**; Edward C Chen; Edward S. Chen; *University of Houston, Houston, TX*
- ThOC am 09:15 **Noncovalent Binding Constants Determined by Mass Spectrometric Methods: Current Status, Limitations, and Future Prospects**; Renato Zenobi; Cédric Bovet; Matthias Jecklin; Sonal Mathur; David Touboul; Arno Wortmann; *ETH Zurich, Zurich, Switzerland*
- ThOC am 09:35 **Detection and Quantification of siRNA Double Strands by MALDI-MS**; Michael Karas<sup>1</sup>; Ute Bahr<sup>1</sup>; Hüseyin Aygün<sup>2</sup>; <sup>1</sup>JW Goethe Univ. of Frankfurt, Frankfurt am Main, Germany; <sup>2</sup>BioSpring, Frankfurt, Germany

**THURSDAY MORNING continued**

**8:15 - 10:15 am  
NON-COVALENT INTERACTIONS continued**

ThOC am 09:55 **Equivalency of Binding Sites in Protein-Ligand Complexes Revealed by Time-Resolved Tandem Mass Spectrometry**; Glen K. Shoemaker<sup>1</sup>; Elena N. Kitova<sup>1</sup>; Monica M. Palcic<sup>2</sup>; John S. Klassen<sup>1</sup>; <sup>1</sup>University of Alberta, Edmonton, Canada; <sup>2</sup>Carlsberg Laboratory, Copenhagen, Denmark

**8:15 - 10:15 am  
ANALYSIS OF REACTIVE METABOLITES BY MS**

**Chair: Ian A. Blair**  
500 Ballroom, lobby level

ThOD am 08:15 **Reactive Metabolites and Mass Spectrometry: Detection and Identification over the Past 10 Years**; Elizabeth M. Joshi; *Eli Lilly and Company, Indianapolis, IN*

ThOD am 08:35 **Studying the Mechanism of Protein Covalent Binding of Fipexide via Reactive Metabolites by Mass Spectrometry**; Lekha Sleno; Gérard Hopfgartner; *University of Geneva, Geneva, Switzerland*

ThOD am 08:55 **Rapid and Sensitive Screening of GSH-Trapped Reactive Metabolites using MRM-Dependent MS/MS Scan on a Triple Quadruple-Linear Ion Trap Mass Spectrometer**; Joanna Zheng; Li Ma; Baomin Xin; Timothy Olah; W. Griffith Humphreys; Mingshe Zhu; *PCO, Bristol-Myers Squibb, Princeton, NJ*

ThOD am 09:15 **LC/MS Analysis of Reactive Metabolites from Cyclooxygenase-2-Mediated Arachidonic Acid Metabolism**; Seon HWA Lee<sup>1</sup>; Michelle V. Williams<sup>2</sup>; Angela Wehr<sup>1</sup>; Kannan Rangiah<sup>1</sup>; Ian A. Blair<sup>1</sup>; <sup>1</sup>Univ. of Pennsylvania, Cntr. Cancer Phar, Philadelphia, PA; <sup>2</sup>Massachusetts Institute of Technology, Cambridge, MA

ThOD am 09:35 **Characterization of Protein Adducts of Sulfuryl Fluoride with Albumin Protein in the Male F344 Rat via PESI-LC/MS/MS**; Fagen Zhang<sup>1</sup>; Michael Bartels<sup>1</sup>; David L. Rick<sup>1</sup>; Dave L. Eisenbrandt<sup>2</sup>; <sup>1</sup>Dow Chemical, Midland, MI; <sup>2</sup>Dow AgroSciences, Indianapolis, IN

ThOD am 09:55 **Iron-Catalyzed Oxidation of ApoB-100 in Low Density Lipoproteins *in vitro* Is Selective for Production of Kynurenines from WE Sequences**; Charles V. Smith<sup>1</sup>; Hsin-hung Chen<sup>2</sup>; Ching-Yi Chen<sup>3</sup>; Lu-Ping Chow<sup>4</sup>; Hsu-Ching Hsu<sup>3</sup>; Yuan-Teh Lee<sup>3</sup>; Chao-yuh Yang<sup>2</sup>; <sup>1</sup>Seattle Children's Hospital Research Institute, Seattle, WA; <sup>2</sup>Baylor College of Medicine, Houston, TX; <sup>3</sup>National Taiwan University Hospital, Taipei, Taiwan; <sup>4</sup>National Taiwan University, Taipei, Taiwan

**8:15 - 10:15 am  
ION MOBILITY SPECTROMETRY: NEW DEVELOPMENTS IN BIOANALYTICAL APPLICATIONS**

**Chair: John A. McLean**  
Sagamore Ballroom 5-6-7, level two

ThOE am 08:15 **Ion Mobility: The Method and Recent Applications**; Michael T. Bowers; *University of California, Santa Barbara, CA*

ThOE am 08:55 **Applications of Ion Mobility/Mass Spectrometry in Pharmaceutical and Bioanalysis**; Colin S. Creaser<sup>1</sup>; Emma L. Harry<sup>1</sup>; Mark D. Howdle<sup>1</sup>; Natali Budimir<sup>1</sup>; Daniel J. Weston<sup>1</sup>; Christine Eckers<sup>2</sup>; Alice Laures<sup>2</sup>; Anthony W.T. Bristow<sup>3,4</sup>; Ian D. Wilson<sup>3,4</sup>; <sup>1</sup>Nottingham Trent University, Nottingham, United Kingdom; <sup>2</sup>GlaxoSmithKline, Stevenage, United Kingdom; <sup>3</sup>AstraZeneca, Macclesfield, United Kingdom; <sup>4</sup>AstraZeneca, Alderley Edge, United Kingdom

ThOE am 09:15 **Enhancing Imaging Mass Spectrometry with Ion Mobility**; Whitney B. Ridenour; Richard M. Caprioli; John A. McLean; *Vanderbilt University, Nashville, TN*

ThOE am 09:35 **DNA Nanostructures in the Gas Phase**; Marvin M Seibert<sup>1</sup>; Michael J Bogan<sup>2</sup>; <sup>1</sup>Uppsala Universitet, Uppsala, Sweden; <sup>2</sup>Lawrence Livermore National Laboratory, Livermore, CA

ThOE am 09:55 **Ion Mobility-Mass Spectrometry of Large Protein Complexes: from Activated Ions to Polydisperse Assemblies**; Brandon T. Ruotolo; Suk-Joon Hyung; Justin L.P. Benesch; Carol V. Robinson; *University of Cambridge, Department of Chemistry, Cambridge, United Kingdom*

**8:15 - 10:15 am  
FTMS INSTRUMENTATION**

**Chair: Ryan M. Danell**  
Sagamore Ballroom 3-4, level two

ThOF am 08:15 **Recent Advances in FT-ICR Mass Spectrometry Instrumentation**; David C. Muddiman; *North Carolina State University, Raleigh, NC*

ThOF am 08:55 **Iterative Accumulation Multiplexing of ESI-Generated Ions on a Fourier Transform Ion Cyclotron Resonance Mass Spectrometer**; Jared Bushey<sup>1</sup>; Gary Glish<sup>1</sup>; Ryan Danell<sup>2</sup>; <sup>1</sup>University of North Carolina at Chapel Hill, Chapel Hill, NC; <sup>2</sup>Danell Consulting, Greenville, NC

ThOF am 09:15 **What to Do with Peptide CID Fragments?** Alexander Scherl<sup>1</sup>; Scott A. Shaffer<sup>1</sup>; Gregory K. Taylor<sup>1</sup>; Patricia Hernandez<sup>2</sup>; Ron D. Appel<sup>2</sup>; Pierre-Alain Binz<sup>3</sup>; David R. Goodlett<sup>1</sup>; <sup>1</sup>University of Washington, Dpt. Medicinal Chemistry, Seattle, WA; <sup>2</sup>Swiss Institute of Bioinformatic, Geneva, Switzerland; <sup>3</sup>GeneBio SA, Geneva, Switzerland

ThOF am 09:35 **Pushing Intact Protein Detection Limits of the Orbitrap Mass Analyzer**; Eduard Denisov; Kerstin Strupat; Alexander Makarov; Vlad Zabrouskov; *ThermoFisher Scientific (Bremen) GmbH, Bremen, Germany*

**THURSDAY MORNING continued**

**8:15 - 10:15 am  
FTMS INSTRUMENTATION continued**

ThOF am 09:55 **Automating a 12 Tesla FTMS for High-Throughput Tandem Mass Spectrometry above 10 kDa**; Dana E. Robinson; Craig D. Wenger; Bryan A. Parks; Michael T. Boyne II; Lihua Jiang; Richard D. LeDuc; Paul M. Thomas; Neil L. Kelleher; *University of Illinois, Urbana, IL*

**8:15 - 10:15 am  
CHARACTERIZING EMERGING  
ENVIRONMENTAL CONTAMINANTS WITH MS**

**Chair: Mehran Alaei**  
Sagamore Ballroom 1-2, level two

ThOG am 08:15 **Comparison of LC/QQQ and LC/TOF-MS for the Analysis of 100 Pesticides in Food and Water: Finding the “Crossover Point”**; Earl Michael Thurman<sup>1</sup>; Imma Ferrer<sup>2</sup>; Yanyan Fang<sup>3</sup>; Paul Zavitsanos<sup>4</sup>; Jerry A. Zweigenbaum<sup>4</sup>; <sup>1</sup>*Costacabana Mass Spectrometry Group, Almeria, Spain*; <sup>2</sup>*University of Almeria, Almeria, Spain*; <sup>3</sup>*Agilent Technologies, Inc., Beijing, China*; <sup>4</sup>*Agilent Technologies, Inc, Wilmington, DE*

ThOG am 08:35 **Determination of b-Blockers in Environmental Waters by Molecularly Imprinted Polymers followed by Advanced Liquid Chromatography- Tandem Mass Spectrometry (Qq-LIT)**; Damià Barceló; Mira Petrovic; Meritxell Gros; *IQAB-CSIC, Environmental Chemistry Department, Barcelona, Spain*

ThOG am 08:55 **Trace Analysis of Antidepressant Pharmaceuticals and Selected Degradates in Environmental Matrices by LC/ESI/MS/MS**; Melissa M. Schultz<sup>1</sup>; Edward T. Furlong<sup>2,3</sup>; Dana W. Kolpin<sup>2,3</sup>; <sup>1</sup>*The College of Wooster, Wooster, OH*; <sup>2</sup>*U.S. Geological Survey, Denver, CO*; <sup>3</sup>*U.S. Geological Survey, Iowa City, IA*

ThOG am 09:15 **Solvent Effects in Electrospray Ionization of Naphthenic Acids from Athabasca Oil Sands**; John V. Headley<sup>1</sup>; Kerry M. Peru<sup>1</sup>; Mark P. Barrow<sup>2</sup>; Peter J. Derrick<sup>2</sup>; <sup>1</sup>*Environment Canada, Saskatoon, Canada*; <sup>2</sup>*Inst Mass Spect. Dept. of Chemistry University of W, Coventry, United Kingdom*

ThOG am 09:35 **ToF-SIMS Spectral Analysis of Nanotube and Fullerene Materials**; Albert Fahey; Christopher Szakal; *National Institute of Standards and Technology, Gaithersburg, MD*

ThOG am 09:55 **Intact Estrogen Receptor Complexes Measured by Chip-Based Nanoelectrospray and MALDI Mass Spectrometry: An Approach to Identify and Classify Endocrine Disruptors**; Cédric Bovet<sup>1</sup>; Arno Wortmann<sup>1</sup>; Marc Ruff<sup>2</sup>; Sylvia Eiler<sup>2</sup>; Florence Granger<sup>2</sup>; Alexis Nazabal<sup>3</sup>; Ryan Wenzel<sup>3</sup>; Bertran Gerrits<sup>4</sup>; Dino Moras<sup>2</sup>; Renato Zenobi<sup>1</sup>; <sup>1</sup>*ETH Zurich, Zürich, Switzerland*; <sup>2</sup>*Institut de Génétique et de Biologie Moléculaire, Illkirch, France*; <sup>3</sup>*CovalX AG, Zürich, Switzerland*; <sup>4</sup>*Functional Genomics Center Zurich, Zürich, Switzerland*

**10:15 am – 2:30 pm  
POSTER SESSION AND EXHIBITS**

7:30 – 8:00 am .....Set up Thursday posters (page 121)  
10:15 am – 2:30 pm ..... All Thursday poster authors present  
11:45 am – 12:15 pm ..... Lunch break for odd-numbered posters  
12:15 – 12:45 pm .....Lunch break for even-numbered posters  
3:30 pm ..... Remove all Thursday posters

**THURSDAY AFTERNOON**

**2:30 - 4:30 PM  
MS IN THE DETERMINATION OF  
CELLULAR PATHWAYS**

**Chair: Ileana Cristea**  
Exhibit Hall D, Lobby Level

ThOA pm 02:30 **Quantitative Approaches to the Study of Cellular Pathways**; Simon J. Gaskell<sup>1</sup>; Robert J Beynon<sup>2</sup>; <sup>1</sup>*University of Manchester, Manchester, United Kingdom*; <sup>2</sup>*University of Liverpool, Liverpool, United Kingdom*

ThOA pm 02:50 **System-Biology Analysis of Interferon-γ Activated Mouse Macrophages: from the Cytosol to the Phagosome**; Matthias Trost<sup>1</sup>; Maria Marcantonio<sup>1</sup>; Mathieu Courcelles<sup>1</sup>; Michel Desjardins<sup>2</sup>; Pierre Thibault<sup>1</sup>; <sup>1</sup>*Institute for Research in Immunology and Cancer, Montréal, Canada*; <sup>2</sup>*Dept. Patho. & Cell Biol., Université de Montréal, Montréal, Canada*

ThOA pm 03:10 **Combining Mass Spectrometry and Computational Modeling to Dissect Metabolic Network Dynamics**; Jie Yuan<sup>1</sup>; William U Fowler<sup>2</sup>; Chris Doucette<sup>2</sup>; Ned Wingreen<sup>2</sup>; Joshua D Rabinowitz<sup>1</sup>; Herschel A Rabitz<sup>2</sup>; <sup>1</sup>*Lewis-Sigler Institute, Princeton University, Princeton, NJ*; <sup>2</sup>*Princeton University, Princeton, NJ*

ThOA pm 03:30 **Proteomic and Genomic Analysis of Nuclear Receptor Signaling Pathways**; Patrick R Griffin; Jennifer Caldwell Busby; Scott A Busby; Valerie Cavett; Michael J Chalmers; Bruce D Pascal; Swati Prasad; Layton H Smith; Mark R Southern; *The Scripps Research Institute, Jupiter, FL*

ThOA pm 03:50 **Mass Spectrometric Signatures of the Proteolytic Activity of *Aspergillus fumigatus* during Invasive Pulmonary Aspergillosis**; Karine Bagramyan; Teresa B. Hong; Joseph M. Lyons; James I. Ito; Markus Kalkum; *City of Hope, Duarte, CA*

ThOA pm 04:10 **Analysis of Protein Kinase - Substrate Networks by Quantitative Phosphoproteomics**; Bernd Bodenmiller<sup>1</sup>; Lukas N. Mueller<sup>1</sup>; Claudine Kraft<sup>1</sup>; Mi-Youn Brusniak<sup>2</sup>; Matthias Gstaiger<sup>1</sup>; Ruedi Aebersold<sup>1</sup>; <sup>1</sup>*ETH Zürich, Zurich, Switzerland*; <sup>2</sup>*Institute for Systems Biology, Seattle, WA*

THURSDAY AFTERNOON continued

2:30 - 4:30 PM  
BIOINFORMATIC ADVANCES FOR MS

Chair: David Fenyo  
Wabash Ballroom, lobby level

- ThOB pm 02:30 **Optimizing Sensitivity and Specificity in Data Analysis of Protein and Peptide Mass Spectra;** Jan Eriksson; *Swedish University of Agricultural Sciences, Uppsala, Sweden*
- ThOB pm 02:50 **The Partition Function of Tandem Mass Spectra: A New Approach to Evaluating Statistical Significance of Peptide Identifications;** Pavel Pevzner; Sangtae Kim; Nitin Gupta; *UCSD, La Jolla, CA*
- ThOB pm 03:10 **Unsupervised Pattern Recognition and the Generation of Decoy Databases for Modeling Tandem Mass Spectrum/Peptide Sequence False Match Frequencies;** Jian Feng<sup>1</sup>; Daniel Naiman<sup>1</sup>; Bret Cooper<sup>2</sup>; <sup>1</sup>*The Johns Hopkins University, Baltimore, MD*; <sup>2</sup>*USDA-ARS, Beltsville, MD*
- ThOB pm 03:30 **MS/MS Libraries of Identified Peptides and Recurring Spectra in Protein Digests;** Stephen E. Stein; Lisa Kilpatrick; Jeri Roth; Paul Rudnick; Xiaoyu (Sara) Yang; *NIST, Gaithersburg, MD*
- ThOB pm 03:50 **Study of Fragmentation Patterns of Modified Peptides and their Native Counterparts;** Mikhail Savitski<sup>1</sup>; Michael L Nielsen<sup>1</sup>; Roman A Zubarev<sup>1</sup>; <sup>1</sup>*biological and Medical Mass Spectrometry, Uppsala, Sweden*; <sup>2</sup>*Biological and Medical Mass Spectrometry, Uppsala, Sweden*
- ThOB pm 04:10 **Bioinformatics Algorithms and Software Enabling Whole Proteome Quantitation Applied to Diploid vs. Haploid Yeast Cells;** Juergen Cox; Lyris de Godoy; Gustavo de Souza; Jesper V. Olsen; Shubin Ren; Matthias Mann; *Max-Planck-Institute of Biochemistry, Martinsried, Germany*

2:30 - 4:30 PM  
CLINICAL ASSAYS WITH MASS SPECTROMETRY

Chair: Alfred L. Yergey  
Room 120-124, lobby level

- ThOC pm 02:30 **Mass Spectrometry in Routine Clinical Chemistry: Past, Present and Future;** Mark W Duncan; *UCDHSC, Aurora, CO*
- ThOC pm 02:50 **MALDI-TOF Mass-Spectrometry Based Minisequencing Method for Rapid Detection Mycobacterium Tuberculosis Resistance to Rifampicin, Isoniazid and Ethambutol;** Vadim M. Govorun; Elena N. Il'ina; Maxim V. Afanas'ev; Larisa N. Ikryannikova; *Research Institute for Physical-Chemical Medicine, Moscow, Russian Federation*
- ThOC pm 03:10 **Drugs of Abuse Screening and Confirmation of Positives for Amphetamines by LC/MS/MS: LC/MS/MS Compares Favourably to both Immunoassays and GC/MS;** Jeff C. Eichhorst<sup>1</sup>; Denis C. Lehotay<sup>2</sup>; Michele L. Etter<sup>1</sup>; Patrick Rogoschewsky<sup>1</sup>; <sup>1</sup>*Saskatchewan Disease Control Laboratory, Regina, Canada*; <sup>2</sup>*University of Saskatchewan, Dept. of Pathology, Saskatoon, Canada*

- ThOC pm 03:30 **Evaluation of a Multi-Parameter Biomarker Set for Oxidative Damage: DNA/RNA, Lipid, and Protein Oxidation Products in Human Samples;** Yali Su; Czarina Cortez; Rui Tan; Chris Heward; *Kronos Science laboratory, Phoenix, AZ*
- ThOC pm 03:50 **Evaluation of an iTRAQ™ Reagent Amino Acid Analysis Kit for the Rapid Quantitation of Amino Acids in Plasma;** Jean Lacey<sup>1</sup>; Bruno Casetta<sup>2</sup>; Scott Daniels<sup>3</sup>; Subodh Nimkar<sup>4</sup>; Dietrich Matern<sup>1</sup>; <sup>1</sup>*Mayo Clinic College of Medicine, Rochester, MN*; <sup>2</sup>*Applied Biosystems, Monza, Italy*; <sup>3</sup>*Applied Biosystems, Framingham, MA*; <sup>4</sup>*Applied Biosystems, Foster City, CA*
- ThOC pm 04:10 **The Analysis of Thyroxin (T4) in Filter Paper Blood Specimens using Flow Injection Electrospray MS/MS;** Donald H. Chace<sup>1</sup>; James DiPerna<sup>2</sup>; Scott Singleton<sup>2</sup>; Mauro Aiello<sup>3</sup>; <sup>1</sup>*Pediatrics Analytical, Bridgeville, PA*; <sup>2</sup>*Pediatrics Screening, Bridgeville, PA*; <sup>3</sup>*MDS Sciex, Concord, ON, Canada*

2:30 - 4:30 PM  
PROFILING DRUG METABOLITES BY MS

Chair: Richard Van Breemen  
500 Ballroom, lobby level

- ThOD pm 02:30 **Metabolic Profiling of Biologically Active Flavanones;** Dejan Nikolic<sup>1</sup>; Frederick Roelens<sup>2</sup>; Denis De Keukeleire<sup>2</sup>; Richard B. van Breemen<sup>1</sup>; <sup>1</sup>*University of Illinois College of Pharmacy, Chicago, IL*; <sup>2</sup>*Ghent University, Ghent, Belgium*
- ThOD pm 02:50 **Positive/Negative Polarity Switching Mass Spectrometry in Metabolite Identification;** Bill Fitch; Yaping Tu; Ludmila Alexandrova; Limin He; *Roche, Palo Alto, CA*
- ThOD pm 03:10 **Metabolite Structure Elucidation by Differential Fragmentation between Positive and Negative Ionization Modes using LTQ Ion Trap Mass Spectrometry;** Steven X Hu; Michael Martin; *TargeGen, Inc., San Diego, CA*
- ThOD pm 03:30 **Using LC/MS Based Metabonomics to Understand the Role of Gut Microflora in Mammalian Metabolism using Axenic Rats;** Robert Plumb<sup>1</sup>; Jeremy Nicholson<sup>1</sup>; Ian Wilson<sup>2</sup>; Paul Rainville<sup>3</sup>; <sup>1</sup>*Imperial College, London, United Kingdom*; <sup>2</sup>*Astra Zeneca, Macclesfield, UK*; <sup>3</sup>*Waters Corporation, Milford, MA*
- ThOD pm 03:50 **A Unique Approach to Metabolism Profiling of Large Peptides in Biological Matrices using On-Line LC/MS and Principal Component Analysis Software;** Miryam Kadkhodayan\*; Yan Wang; Isabelle Tcholakov; Chris Bellows; *Amylin Pharmaceuticals, Inc., San Diego, CA*
- ThOD pm 04:10 **Metabolite Identification Studies using UPLC™-Radiodetection-QToF-MS;** Mark D. Wrona<sup>1</sup>; Christine Dieckhaus-Fandozzi<sup>2</sup>; Carl Berthelette<sup>1</sup>; Kevin P. Bateman<sup>1</sup>; <sup>1</sup>*Merck Frosst Canada & co, Kirkland, Quebec, Canada*; <sup>2</sup>*Merck Research Laboratories, West Point, PA*



THURSDAY AFTERNOON continued

**2:30 - 4:30 PM**  
**MASS SPECTROMETRY OF OXIDIZED PROTEINS**

**Chair: Richard Vachet**  
Sagamore Ballroom 5-6-7, level two

- ThOE pm 02:30 **Three-Dimensional Structure of Cofilin Bound to Monomeric Actin Derived by Structural Mass Spectrometry Data**; J.K. Amisha Kamal<sup>1</sup>; Sabrina Benchaar<sup>2</sup>; Keiji Takamoto<sup>1</sup>; Emil Reisler<sup>2</sup>; Mark Chance<sup>1</sup>; <sup>1</sup>Case Western Reserve University, Cleveland, OH; <sup>2</sup>University of California Los Angeles, Los Angeles, CA
- ThOE pm 03:10 **Characterization of Electrochemical-Induced Protein Oxidation as a Probe for Higher Order Protein Structural Interrogation**; Robert Hettich; Carlee McClintock; Vilmos Kertesz; *Oak Ridge National Laboratory, Oak Ridge, TN*
- ThOE pm 03:30 **Probing Oxidative Stress using Intact Protein LC-MS**; Ljiljana Pasa-Tolic; Natacha M. Lourette; Heather S. Smallwood; Si Wu; Curt B. Boschek; Thomas C. Squier; Richard D. Smith; *Pacific NW Nat'l Lab, Richland, WA*
- ThOE pm 03:50 **In vivo Protein Targets of Reactive Lipid Peroxidation Products**; Juan Chavez; Bingnan Han; Jan F. Stevens; Claudia S. Maier; *Oregon State University, Corvallis, OR*
- ThOE pm 04:10 **Towards the Proteomic Mapping of Endogenous Sites of HNE Modification: A Two-Step Solid-Phase Enrichment Strategy for HNE-Modified Peptides**; Mikel R. Roe; Hongwei Xie; Juan Feng; Danni L. Meany; LaDora V. Thompson; Edgar A. Arriaga; Timothy J. Griffin; *University of Minnesota, Minneapolis, MN*

**2:30 - 4:30 PM**  
**ION MOBILITY INSTRUMENTATION**

**Chair: Alexandre Shvartsburg**  
Sagamore Ballroom 3-4, level two

- ThOF pm 02:30 **Recent Advances in FAIMS/IMS/MS Instrumentation**; Keqi Tang; Richard D. Smith; *Pacific NW National Laboratory, Richland, WA*
- ThOF pm 02:50 **The Perils of the Plasma Proteome Map Determined by Multidimensional Liquid Chromatography-Ion Mobility-Mass Spectrometry**; Stephen Valentine<sup>1</sup>; Xiaoyun Liu<sup>2</sup>; Manolo D. Plasencia<sup>2</sup>; Sarah Trimpin<sup>2</sup>; Stephen Naylor<sup>1</sup>; David E. Clemmer<sup>2</sup>; <sup>1</sup>Predictive Physiology and Medicine, Inc., Bloomington, IN; <sup>2</sup>Indiana University, Bloomington, IN
- ThOF pm 03:10 **New Concepts for Ion Mobility-Mass Spectrometry (IM-MS) Instruments**; David H. Russell; *Texas A&M University, College Station, TX*
- ThOF pm 03:30 **Ion Separations in Differential Mobility Spectrometry through Control of Pressure, Temperature and Chemical Modifiers in the Supporting Atmosphere**; Gary A. Eiceman<sup>1</sup>; Erkinjon G. Nazarov<sup>2</sup>; Stephen L. Coy<sup>2</sup>; Evgeny V. Krylov<sup>2</sup>; Raanan A. Miller<sup>2</sup>; <sup>1</sup>New Mexico State University, Las Cruces, NM; <sup>2</sup>Stonex Corporation, Inc, Bedford, MA

- ThOF pm 03:50 **Progress in Coupling a Differential Mobility Analyzer to the Source End of a Mass Spectrometer for IMS-MS Studies**; Juan Fernandez de la Mora<sup>2</sup>; Juan Rus<sup>1</sup>; Francisco Estevez<sup>1</sup>; Juan Antonio Sillero<sup>1</sup>; <sup>1</sup>SEADM, Boecillo, Spain; <sup>2</sup>Yale University, New Haven, CT
- ThOF pm 04:10 **Enhanced Protein Detection in Proteomics Experiments using High-Field Asymmetric Ion Mobility Spectrometry on an Orbitrap Mass Spectrometer**; Julian Saba; Eric Bonneil; Pierre Thibault; *University of Montreal, Montreal, Quebec, Canada*

**2:30 - 4:30 PM**  
**ION STRUCTURES DETERMINED BY MS**

**Chair: John R. Eyler**  
Sagamore Ballroom 1-2, level two

- ThOG pm 02:30 **Auxiliary Gas Phase Methods for Structure Elucidation by Mass Spectrometry**; Herbert H Hill<sup>1</sup>; Brad Bendiak<sup>2</sup>; Harry Zhu<sup>1</sup>; Mathew Pollard<sup>1</sup>; Prabha Dwivedi<sup>1</sup>; Maggie Tam<sup>1</sup>; <sup>1</sup>Washington State University, Pullman, WA; <sup>2</sup>University of Colorado, Denver, CO
- ThOG pm 02:50 **Structural Determination of Nucleobases and Nucleosides using Surface-Enhanced Raman Scattering of Soft and Reactively Landed Ions on Silver Surfaces**; Karl E. Jackson; Michael Volný; Matt Diener; František Turecek; *University of Washington Department of Chemistry, Seattle, WA*
- ThOG pm 03:10 **Hydrogen/Deuterium Exchange of Alanine Oligomeric Peptides: A Case Study of HAAAA**; Brittany R. Perkins; Kristin A. Herrmann Favela; Linda Brecci; Vicki Wysocki; *Chemistry Department, University of Arizona, Tucson, AZ*
- ThOG pm 03:30 **Shedding Light on the Structures of CID and HDX Product Ions**; Nick C Polfer<sup>1</sup>; Bela Paizs<sup>2</sup>; John R. Eyler<sup>3</sup>; Rob C Dunbar<sup>4</sup>; Jos Oomens<sup>5</sup>; <sup>1</sup>Fritz-Haber-Institut, Berlin, Germany; <sup>2</sup>German Cancer Research Center, Heidelberg, Germany; <sup>3</sup>University of Florida, Gainesville, FL; <sup>4</sup>Case Western University, Cleveland, OH; <sup>5</sup>FOM Institute 'Rijnhuizen', Nieuwegein, Netherlands
- ThOG pm 03:50 **Mid-Infrared Spectroscopy of Cationized Arginine Complexes: The Transition from Nonzwitterionic to Zwitterionic Arginine**; Rebecca A. Jockusch<sup>1</sup>; Matthew W. Forbes<sup>1</sup>; Matthew F. Bush<sup>2</sup>; Evan R. Williams<sup>2</sup>; Nick C. Polfer<sup>3</sup>; Jos Oomens<sup>3</sup>; <sup>1</sup>University of Toronto, Toronto, Canada; <sup>2</sup>University of California, Berkeley, Berkeley, CA; <sup>3</sup>FOM Institute for Plasma Physics "Rijnhuizen", Nieuwegein, the Netherlands
- ThOG pm 04:10 **Cation-Pi Interactions and Complexes of Alkali Metal Ions with Aromatic Dipeptides. An IRMPD Structure Investigation**; Robert C. Dunbar<sup>1</sup>; Nick C. Polfer<sup>2</sup>; Jos Oomens<sup>2</sup>; <sup>1</sup>Case Western Reserve Univ., Cleveland, OH; <sup>2</sup>FOM Institute for Plasma Physics, Nieuwegein, Netherlands

THURSDAY AFTERNOON continued

4:45 - 5:30 pm  
PLENARY LECTURE  
Exhibit Hall D

**Samuel Gandy**  
*Farber Institute for Neurosciences*  
**Regulation of Sorting and Processing of the  
Alzheimer's Amyloid-Beta**

5:30 - 8:00 pm  
CLOSING GALA

*A festive evening of specialty food, drinks and entertainment*

**Westin Hotel**

Red dot on name badge is required.



Exit the closing lecture to the **Tiki Bar** of tropical drinks and steel drums.

Ascend the escalator to the Westin Hotel and begin this festive evening in the **Wine Bar**

complete with a variety of wines and hors d'oeuvres

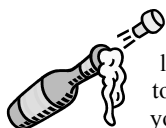


The music of Xanadu will draw you into the ballroom, transformed into two spectacular areas. **Agilent Technologies**, sponsor of the **Brew Bar**, provides sports TV, a dance floor and caricaturists. Enjoy pub food of sliders, hotdogs, and fresh popcorn.

Now you will notice the elegant **Martini Bar** sponsored by **Thermo Scientific**. Flair bartenders will entertain with a variety of specialty martinis to compliment the carved roast beef and whipped potato "martinis."



Wander back to the foyer to enjoy a pasta station with a variety of condiments.



But that isn't all! The air is full of bubbles leading you to the **Bubble Bar** for a champagne toast and dessert. Linger to the music of a jazz trio as you say good-bye to another fabulous ASMS.

Made possible with support of the following companies

*Specialty Bar Sponsors*

**Agilent Technologies, Brew Bar**

**Thermo Scientific, Martini Bar**

*General Sponsors*

Alcott Chromatography, Inc.

Applied Kilovolts

Bruker Daltonics

Griffin Analytical Technologies

New Objective, Inc.

Precision Instruments

Proxeon Biosystems

SGE, Inc.

Shimadzu Biotech

Waters Corporation

## MONDAY POSTERS

### POSTER SPACE

7:30 – 8:00 am.....	All Monday posters should be set
11:15 am – 3:30 pm....	All Monday poster authors should be present
11:45 am – 12:15 pm.....	Lunch break for odd-numbered posters
12:15 – 12:45 pm .....	Lunch break for even-numbered posters
7:30 – 8:00 pm .....	Remove all Monday posters
Special Posters .....	001 - 003
Ambient Ionization I .....	004 - 020
Ionization Mechanisms .....	021 - 033
Instrumentation: New Concepts I.....	034 - 049
Instrumentation: FTMS .....	050 - 072
Instrumentation: TOF .....	073 - 089
Ion Activation / Dissociation.....	090 - 101
Ion Structures / Energetics I .....	102 - 119
Peptides: Fragmentation & Sequencing I.....	120 - 133
Hydrocarbon and Petrochemical .....	134 - 150
LC/MS.....	151 - 169
Bioinformatics: Search Engines & Algorithms .....	170 - 199
Carbohydrates and Oligosaccharides I .....	200 - 212
Clinical Chemistry .....	213 - 232
Drug Metabolism: Pharmacokinetics .....	233 - 243
Drugs and their Metabolites: Profiling .....	244 - 254
Drugs: Quantitation .....	255 - 267
Metabolites (Endogenous): Quantitative .....	268 - 280
Metabolomics: Applications.....	281 - 300
Small Molecules in Biological Matrix.....	301 - 314
Microbial Analysis I.....	315 - 329
Immunology .....	330 - 341
Toxicology .....	342 - 360
Neuropeptides .....	361 - 372
Peptides: General .....	373 - 386
Peptides: Post Translational Modifications I.....	387 - 404
Peptides: Quantitation .....	405 - 422
Proteomics Quantitative: Stable Isotope Labeling.....	423 - 431
Proteomics: Phosphorylation.....	432 - 446
Proteins: Modified I .....	447 - 463
Proteomics: Membrane .....	464 - 473
Protein: Conformation I .....	474 - 498
Proteomics: Biomarkers I.....	499 - 528
Proteomics: Medical I .....	529 - 549
Proteomics: New and Improved Methods I.....	550 - 577
Proteomics: Sample Preparation and Methods I (Biofluids).....	578 - 589

### SPECIAL POSTERS

*These posters will be displayed Monday through Thursday.*

- Poster 001 **Keyword Occurrence Statistics at ASMS Annual Conferences, 2001-2006**; David N. Heller<sup>1</sup>; Tom Thomas<sup>2</sup>; <sup>1</sup>FDA Center for Veterinary Medicine, Laurel, MD; <sup>2</sup>Inmerge Co., Sante Fe, NM
- Poster 002 **Mass Whatever! Explaining The Significance and Impact of Mass Spectrometry in Society**; Donald H. Chace<sup>1</sup>; David Sparkman<sup>2</sup>; <sup>1</sup>Pediatric Analytical, Bridgeville, PA; <sup>2</sup>Consultant, Antioch, CA
- Poster 003 **FACSS Annual Conference, Memphis, TN**; Kermit Murray, Louisiana State University, Baton Rouge, LA

### POSTER SPACE

#### AMBIENT IONIZATION I

004 - 020

- MP 004 **Carbon Dioxide-Induced Atmospheric Sample Desorption and Analysis**; Michael J. Toman; Joseph A. Jarrell; *Waters Corporation, Milford, MA*
- MP 005 **Enhanced Information Content of Direct Desorption Experiments Utilising Reactive DESI Combined with Ion-Mobility Mass Spectrometry and Tandem Mass Spectrometry**; Gillian R. Hilton<sup>1</sup>; Jonathan P. Williams<sup>1</sup>; Richard J. Holland<sup>1</sup>; Konstantinos Thalassinos<sup>1</sup>; Anthony T. Jackson<sup>2</sup>; James H. Scrivens<sup>1</sup>; <sup>1</sup>University of Warwick, Coventry, United Kingdom; <sup>2</sup>ICI Measurement Science Group, Wilton, Redcar
- MP 006 **Aerosol Desorption Electrospray Ionization**; Jianan Dong; Yohannes Rezenom; Kermit K. Murray; *Louisiana State University, Baton Rouge, LA*
- MP 007 **Rapid In-Source Methods for DART-interface TOFMS Determination of Structural Information**; Teresa M. Vail<sup>1</sup>; Robert B. Cody<sup>2</sup>; O. David Sparkman<sup>1</sup>; Patrick R. Jones<sup>1</sup>; <sup>1</sup>University of the Pacific, Stockton, CA; <sup>2</sup>JEOL USA, Inc., Peabody, MA
- MP 008 **Quantitative Desorption Electrospray Ionization Quadrupolar Ion Trap Mass Spectrometry of Antimalarial Pharmaceutical Preparations**; Leonard Nyadong<sup>1</sup>; Sameer Late<sup>2</sup>; Ajay Banga<sup>2</sup>; Michael Green<sup>3</sup>; Paul Newton<sup>4</sup>; Facundo Fernandez<sup>1</sup>; <sup>1</sup>Georgia Institute of Technology, Atlanta, GA; <sup>2</sup>College of Pharmacy, Mercer University, Atlanta, GA; <sup>3</sup>Center for Disease Control and Prevention, Atlanta, GA; <sup>4</sup>Mahosot Hospital, Oxford University, Oxford, United Kingdom
- MP 009 **Atmospheric Desorption Analysis of Pharmaceutical Solid Dosage Forms: Progress over the Past Year**; Abigale Marcus<sup>1,2</sup>; Anthony New<sup>1,2</sup>; <sup>1</sup>GlaxoSmithKline, King of Prussia, PA; <sup>2</sup>GlaxoSmithKline, Ware, UK
- MP 010 **DESI of Synthetic Polymer Surfaces**; Sara E. Whitson; Michael J. Polce; Chrys Wesdemiotis; *The University of Akron, Akron, OH*
- MP 011 **High Throughput Determination of Proline Stable Isotope Enrichments by Direct Analysis in Real Time (DART™) Mass Spectrometry**; Zhanpin Wu<sup>1</sup>; Xia-Jun Zhang<sup>2</sup>; <sup>1</sup>JEOL USA, Inc., Peabody, MA; <sup>2</sup>University of Texas Medical Branch at Galveston, Galveston, TX
- MP 012 **Salt Tolerance of Desorption Electrospray Ionization Mass Spectrometry (DESI-MS) Investigated Using Common Drugs**; Ayanna U. Jackson<sup>1</sup>; Nari Talaty<sup>1</sup>; R. G. Cooks<sup>1</sup>; Gary J. Van Berkel<sup>2</sup>; <sup>1</sup>Purdue University, West Lafayette, IN; <sup>2</sup>Oak Ridge National Laboratories, Oak Ridge, TN
- MP 013 **Sensitivity and Quantitation using Atmospheric Solids Analysis Probe (ASAP) on a High Resolution Mass Spectrometer**; Richard G. McKay; Barbara S. Larsen; Charles N. Mcewen; *E I DuPont De Nemours, Wilmington, DE*
- MP 014 **Direct Analysis in Real Time Mass Spectrometry (DART-MS) at the Library of Congress: New Answers to Old Questions**; Jeanette Adams<sup>1</sup>; Robert B. Cody<sup>2</sup>; <sup>1</sup>Library of Congress, Washington, DC; <sup>2</sup>JEOL USA, Peabody, MA
- MP 015 **DART for Bioanalysis: Where Are We Now?**; Shaoxia Yu<sup>1</sup>; Cindy Xia<sup>1</sup>; Brian Musselman<sup>2</sup>; Joe Tice<sup>2</sup>; Elisabeth Crawford<sup>2</sup>; Jing-Tao Wu<sup>1</sup>; <sup>1</sup>Millennium Pharmaceuticals, Winchester, MA; <sup>2</sup>Ion Sense, Inc., Saugus, MA
- MP 016 **Development and Characterization of a Desorption Electrospray Ionization Source Coupled to Hybrid**

## MONDAY POSTERS

### POSTER SPACE

- FT-ICR Mass Spectrometry for Biological Analyses;** Michael S. Bereman; Adam M. Hawkridge; David C. Muddiman; *North Carolina State University, Raleigh, NC*
- MP 017 **Rapid Formulation Assessment by using an Automated DART<sup>&#174;</sup>-based Surface Ionization System;** Elizabeth Crawford; Brian Musselman; *IonSense, Inc., Saugus, MA*
- MP 018 **Comparison of Electrospray Ionization and Direct Analysis in Real Time in Drug Discovery;** Chris Petucci<sup>1</sup>; Jason Diffendal<sup>1</sup>; David Kaufman<sup>1</sup>; Belew Mekonnen<sup>1</sup>; Gene Terefenko<sup>1</sup>; Brian Musselman<sup>2</sup>; <sup>1</sup>Wyeth Research, Collegeville, PA; <sup>2</sup>IonSense, Danvers, MA
- MP 019 **Resolution and Accuracy in Desorption Electrospray Ionization Experiments;** Melvin A. Park; Kevin Dixon; Catherine Stacey; *Bruker Daltonics, Inc., Billerica, MA*
- MP 020 **Characterization of Matrix-Assisted Laser Desorption Electrospray Ionization (MALDESI) Coupled to a Hybrid FT-ICR Mass Spectrometer for Direct Analysis of Proteins;** Jason S. Sampson; Adam M. Hawkridge; David C. Muddiman; *North Carolina State University, Raleigh, NC*

### IONIZATION MECHANISMS

021 - 033

- MP 021 **APCI-MS Detection of Low Volatility (ppt) Species at Room Temperature: the Advantage of Fenn's Droplet-Based "Electrospray Charging";** F. Estevez<sup>1</sup>; M. Hernandez<sup>1</sup>; J. Rus<sup>1</sup>; A. Casado<sup>1</sup>; G. Fernandez de la Mora<sup>1</sup>; P. Martinez-Lozano<sup>1</sup>; J. Fernandez de la Mora<sup>2</sup>; <sup>1</sup>SEADM, Boecillo, Spain; <sup>2</sup>Yale University, Mechanical Engineering Department, New Haven, CT
- MP 022 **Experimental Determination of the Electron Affinities of Several MALDI Matrices;** Timothy Lippa<sup>1</sup>; Soren Eustis<sup>2</sup>; Kit Bowen<sup>2</sup>; <sup>1</sup>The Johns Hopkins Applied Physics Laboratory, Laurel, MD; <sup>2</sup>The Johns Hopkins University, Baltimore, MD
- MP 023 **An Effect of Plasma Formation on Mechanisms of Ionization Near a Cathode in Flow Technique Mass Spectrometry Studies;** P.S. Vinogradov; D.M. Avtonomov; I.A. Popov; E.N. Nikolaev; *IEPCP, Moscow, Russia*
- MP 024 **The Role of Surface Activated Chemical Ionization (SACI) Mechanism in Quantitation Performance Improvement;** Luca Vegetti<sup>1</sup>; Luigi RossiBernardi<sup>2</sup>; Simone Cristoni<sup>1</sup>; <sup>1</sup>ISB, Italy, Italy; <sup>2</sup>Multimedica Laboratories, Milan, Italy
- MP 025 **Non-Radioactive Ion Source for Psychotropic Drugs in Air at Ambient Pressure Through Surface-Ionization with Mass-Spectrometry;** Utkur Rasulev<sup>1</sup>; Usman Khasanov<sup>1</sup>; Alexander Mikhaylin<sup>1</sup>; Gary Eiceman<sup>2</sup>; Fatkhulla Tadjimukhamedov<sup>2</sup>; Erkinjon Nazarov<sup>3</sup>; <sup>1</sup>Arifov Institute of Electronics, Tashkent, Uzbekistan; <sup>2</sup>New Mexico State University, Las Cruces, NM; <sup>3</sup>SIONEX Corporation, Bedford, MA
- MP 026 **Laser Fluence and Profile Effects on Sensitivity in MALDI Mass Spectrometry;** Hui Qiao; Vijanaka Fernando; Oleg Krokhin; Vic Spicer; Kenneth G Standing; Werner Ens; *University of Manitoba, Winnipeg, Canada*
- MP 027 **Ionization efficiency Study of Matrix-Assisted Laser Desorption Ionization by Picoliter Inkjet Printing Sample Preparation;** Noriyuki Ojima; Alan Barnes; Omar Belgacem; Emmanuel Raptakis; *Shimadzu Biotech, Manchester, United Kingdom*

### POSTER SPACE

- MP 028 **Use of Small Polymers to Study Selectivity of Electrospray Response;** Salimo Mohamed; Laurence Charles; *University Aix-Marseille I & III, Marseille Cedex 20, France*
- MP 029 **Electrospray Charging for Detecting Heavy Vapors in Human Breath;** Pablo Martinez-Lozano Sinues<sup>1</sup>; Juan Fernandez de la Mora<sup>2</sup>; <sup>1</sup>SEADM, Valladolid, Spain; <sup>2</sup>Yale University, New Haven, CT
- MP 030 **SFC-MS: Ionisation in the Absence of High Voltage - a Route to Greater Sensitivity;** G. John Langley<sup>1</sup>; Mohini Thite<sup>1</sup>; Jeff Caldwell<sup>2</sup>; Richard Coxhead<sup>3</sup>; Laure Hitzel<sup>5</sup>; Paul Oakley<sup>6</sup>; Clare Paterson<sup>4</sup>; Bob Boughtflower<sup>4</sup>; Frank Pullen<sup>5</sup>; Steve Lane<sup>4</sup>; <sup>1</sup>University of Southampton, School of Chemistry, UK; <sup>2</sup>Princeton Chromatography Inc., Cranbury, NJ; <sup>3</sup>Evotec, 151 Milton Park, Abingdon, UK; <sup>4</sup>GlaxoSmithKline, New Frontiers North, Harl, UK; <sup>5</sup>Pfizer Global Research and Development, Sandwich, UK; <sup>6</sup>Mettler-Toledo Autochem, Newark, DE
- MP 031 **Volatilization of Organics by Laser-Induced Acoustic Desorption: What is the Mechanism?** Alexander V. Zinovev; Michael J. Pellin; Igor V. Veryovkin; *Argonne National Laboratory, Argonne, IL*
- MP 032 **Investigations of Ionization Mechanisms Present in Atmospheric Pressure Ion Sources using APLI;** Matthias Lorenz; Ralf Schiewek; Klaus J Brockmann; Ana L Mangas Suarez; Siegmund Gaeb; Oliver J Schmitz; Thorsten Benter; *University of Wuppertal, Wuppertal, Germany*
- MP 033 **Probing Temperature Changes in the Electrospray Plume Using Laser-induced Fluorescence Spectrometry;** Yu Zhu; Erik Portelius; Charles Feigerle; Kelsey Cook; *The University of Tennessee, Knoxville, TN*

### INSTRUMENTATION: NEW CONCEPTS I

034 - 049

- MP 034 **A Novel Bulk Electrolysis Cell for Online Mass Spectrometric Analysis of Electrochemical Processes;** Conor Mullens; Waldemar Gorski; Andrew Studley; Stephan B.H. Bach; *University of Texas at San Antonio, San Antonio, TX*
- MP 035 **Online Coupling of Electrocapture Using a Multiple Membrane Section Electrospray Membrane Probe Interfaced to Time-of-Flight Mass Spectrometry;** Thomas P. White; Craig M. Whitehouse; *Analytica of Branford, Inc., Branford, CT*
- MP 036 **Advanced Manufacturing Techniques for the Fabrication of Space Instrumentation Components;** Michael S. Watson<sup>1</sup>; Erik A. Syrstad<sup>1</sup>; James S. Dyer<sup>1</sup>; Charles M. Swenson<sup>2</sup>; John L. Stauder<sup>1</sup>; <sup>1</sup>Space Dynamics Laboratory, North Logan, UT; <sup>2</sup>Utah State University, Logan, UT
- MP 037 **Energy Focus for Distance-of-Flight Mass Spectrometry;** Christie G. Enke; Gareth Dobson; *University of New Mexico, Albuquerque, NM*
- MP 038 **3-Dimensional Computation of a Laminar Flow Interface for LC/MS/MS;** Serguei Savtchenko<sup>1</sup>; Lisa Cousins<sup>1</sup>; Gholamreza Javahery<sup>1</sup>; Ilia Tomski<sup>1</sup>; Charles Jolliffe<sup>1</sup>; Nasser Ashgriz<sup>2</sup>; <sup>1</sup>IONICS Mass Spec Group, Inc., Concord, Canada; <sup>2</sup>University of Toronto, Toronto, Canada
- MP 039 **A Novel Electrospray Selected-Ion Flow Tube Mass Spectrometer Suited for the Study of Biophysical Chemistry;** Diethard K. Bohme<sup>1</sup>; *York University, Toronto, Canada*; <sup>2</sup>Gregory Koyanagi, Toronto,

MONDAY POSTERS

POSTER SPACE

- Canada; <sup>3</sup>Stefan Feil, Toronto, Canada; <sup>4</sup>Janna Anichina, Toronto, Canada; <sup>5</sup>Andrea Dasic, Toronto, Canada; <sup>6</sup>Michael Jarvis, Toronto, Canada
- MP 040 **An Investigation into a Digital Ion Trap as an Ion Source for a Time of Flight Mass Spectrometer;** Roger Giles<sup>1</sup>; David Rousell<sup>1</sup>; Michael Sudakov<sup>1</sup>; Dimitris Papanastasiou<sup>2</sup>; <sup>1</sup>SRL, Manchester, United Kingdom; <sup>2</sup>Las Cruces University, Las Cruces, NM
- MP 041 **A Compact Neutral Particle Detector for Satellite-Borne Space Environment Measurements;** Erik A. Syrstad<sup>1</sup>; James S. Dyer<sup>1</sup>; Charles M. Swenson<sup>2</sup>; Michael S. Watson<sup>1</sup>; <sup>1</sup>Space Dynamics Laboratory, North Logan, UT; <sup>2</sup>Utah State University, Logan, UT
- MP 042 **Programmable Ion/Particle Printer at Atmosphere for Sample Preparation of MALDI Surfaces;** David Fries<sup>1</sup>; Ross Willoughby<sup>2</sup>; Stan Ivanov<sup>1</sup>; Brian Gregson<sup>1</sup>; Edward Sheehan<sup>2</sup>; <sup>1</sup>University of South Florida, St. Petersburg, FL; <sup>2</sup>Chem-Space Associates, Pittsburgh, PA
- MP 043 **The Development of a Novel Electron Multiplier with an Onboard Integral High Voltage Power Supply for use in Mass Spectrometers;** Bruce N Laprade<sup>1</sup>; Richard Prunier<sup>1</sup>; Kevin Wheelhouse<sup>2</sup>; <sup>1</sup>BURLE Electro-Optics, Sturbridge, MA; <sup>2</sup>Applied KiloVolts, Goring by the Sea, UK
- MP 044 **Direct Real-Time Desorption/Ionization;** Damien A. Narcisse; Kermit K. Murray; Louisiana State University, Baton Rouge, LA
- MP 045 **Using Pulsed Acceleration and Charge Detection to Determine Mass in the Gigadalton Regime;** Sarah Mabbett; Joshua T Maze; Lloyd W Zilch; Martin F Jarrold; Indiana University, Bloomington, IN
- MP 046 **What is the Speed Limit of ESI? Simulation, Measurement and Analysis of Long NanoESI-HT-TOFMS Timetraces of Some Relevant Fast Processes;** Ignacio Zuleta; Oh-Kyu Yoon; Matthew D. Robbins; Griffin K. Barbulu; Richard N. Zare; Stanford University, Stanford, CA
- MP 047 **Covalent Immobilization of Peptides on Self-Assembled Monolayer Surfaces using Soft-Landing of Mass-Selected Ions;** Peng Wang; Omar Hadjar; Jean H. Futrell; Julia Laskin; Pacific Northwest National Laboratory, Richland, WA
- MP 048 **Application of MAB/FT-ICR for Chemical Warfare Agents Detection;** Clotilde Le Voi<sup>1</sup>; Carlos Afonso<sup>1</sup>; Claude Beaugrand<sup>2</sup>; Françoise Fournier<sup>1</sup>; Jean-Claude Tabet<sup>1</sup>; <sup>1</sup>University P. and M. Curie, Paris Cedex O5, France; <sup>2</sup>Abionix, Aix en Provence, France
- MP 049 **Development of a Multiplexed High Throughput Mass Spectrometer;** Sameer Kothari<sup>1</sup>; Dennis Taylor<sup>2</sup>; Jonathan Amy<sup>1</sup>; George Stafford<sup>2</sup>; R. Graham Cooks<sup>1</sup>; <sup>1</sup>purdue University, West Lafayette, IN; <sup>2</sup>Thermo Fisher Scientific, San Jose, CA

INSTRUMENTATION: FTMS  
050 - 072

- MP 050 **MALDI-FT-ICR-MS Quantification of Peptides and Oligosaccharides using Stable-Isotope Labels;** Kristina Toups; Taufika Islam Williams; Jing Zheng; Jennifer L. Frahm; David C. Muddiman; North Carolina State University, Raleigh, NC
- MP 051 **A New Compensated Infinity Cell for Larger Radius Ion Excitation in Fourier Transform Ion Cyclotron Resonance Mass Spectrometry;** Sunghwan Kim<sup>1</sup>; Myoung Choul Choi<sup>1</sup>; Seung Yong Kim<sup>1</sup>; Jong Shin Yoo<sup>1</sup>; Hyun Sik Kim<sup>1</sup>; Christopher L. Hendrickson<sup>2</sup>;

POSTER SPACE

- Alan G. Marshall<sup>2</sup>; <sup>1</sup>Korea Basic Science Institute, Daejeon, Korea; <sup>2</sup>National High Magnetic Field Laboratory, Tallahassee, FL
- MP 052 **Elemental Composition Determination of Small Molecules with High Precision using FTICR MS;** Martin Zeller<sup>12</sup>; Wolfgang Metelmann-Strupat<sup>12</sup>; Markus Kellmann<sup>12</sup>; Scott Peterman<sup>12</sup>; Bernard Delanghe<sup>12</sup>; <sup>1</sup>Thermo Fisher Scientific, Bremen, Germany; <sup>2</sup>Thermo Fisher Scientific, Somerset, NJ
- MP 053 **Improvements to Stepwise-External Calibration in FTICR for Proteomic Analysis by Accurate Mass Measurement;** Li Jing; Chunyan Li; Richard L. Wong; I. Jonathan Amster; University of Georgia, Athens, GA
- MP 054 **Low Noise High Performance Preamplifiers for Non-destructive Detection of Ions in Precision Mass Spectrometry;** Raman Mathur; Cheng Lin; Konstantine Aizikov; Ronald W. Knepper; Peter B. O'Connor; Boston University, Boston, MA
- MP 055 **The Spontaneous Loss of Coherence Catastrophe in FTMS;** Konstantin Aizikov; Peter B. O'Connor; BUSM Mass Spectrometry Resource, Boston, MA
- MP 056 **A Procedure for Tuning and the Preliminary Evaluation of an Electrically Compensated Cylindrical ICR Cell;** Adam M. Brustkern; Don L. Rempel; Michael L. Gross; Washington University, St. Louis, MO
- MP 057 **Properties of Ions Prepared with Metastable Atom Bombardment Analyzed with an Hybrid Q-FTICR Instrument;** Clotilde Le Voi<sup>1</sup>; Carlos Afonso<sup>1</sup>; Claude Beaugrand<sup>2</sup>; Christelle Kotanian<sup>1</sup>; Denis Lesage<sup>1</sup>; Jean-Claude Tabet<sup>1</sup>; <sup>1</sup>Université Paris 6, Paris, France; <sup>2</sup>Abionix, Aix en Provence, France
- MP 058 **Characterization of Electrospray Ionization Hybrid Permanent Magnet FTICR Mass Spectrometer;** Mikhail V. Gorshkov<sup>1</sup>; Andrey N. Vilkov<sup>2</sup>; Dmitry A. Tolmachev<sup>1</sup>; Chaminda M. Gamage<sup>2</sup>; Alexander S. Misharin<sup>2</sup>; Irina A. Tarasova<sup>1</sup>; Vladimir M. Doroshenko<sup>2</sup>; <sup>1</sup>Institute of Energy Problems of Chemical Physics, Moscow, RUSSIA; <sup>2</sup>MassTech, Inc., Columbia, MD
- MP 059 **ECD and CID of Peptide Ions in a Hybrid Permanent Magnet FT-ICR Mass Spectrometer;** Chaminda M. Gamage<sup>1</sup>; Alexander S. Misharin<sup>1</sup>; Andrey N. Vilkov<sup>1</sup>; Mikhail V. Gorshkov<sup>2</sup>; Vladimir M. Doroshenko<sup>1</sup>; <sup>1</sup>MassTech, Inc., Columbia, MD; <sup>2</sup>Institute of Energy Problems of Chemical Physics, Moscow, Russia
- MP 060 **MassSpecter: A Modular Data Station for a Hybrid ESI-FTICR Mass Spectrometry;** Dmitry A. Tolmachev<sup>1</sup>; Konstantin P. Novoselov<sup>1</sup>; Oleg N. Kharybin<sup>1</sup>; Andrey N. Vilkov<sup>2</sup>; Vladimir M. Doroshenko<sup>2</sup>; Mikhail V. Gorshkov<sup>1</sup>; <sup>1</sup>Institute of Energy Problems of Chemical Physics, Moscow, Russia; <sup>2</sup>MassTech, Inc., Columbia, MD
- MP 061 **Improvement of Ion Transfer Efficiency Through the Gate Valve for an External Ion Injection FT-ICR MS;** Myoung-choul Choi; Sunghwan Kim; Jong Shin Yoo; Hyun Sik Kim; Korea Basic Science Institute, Daejeon, South Korea
- MP 062 **Calibration Laws Based on Multiple Linear Regression Applied to MALDI-FTICR-MS;** M. Ashley Chadwick; Taufika Islam Williams; D. Keith Williams, Jr; David C. Muddiman; North Carolina State University, Raleigh, NC
- MP 063 **LC/MS, Proteins, and Petroleum: Performance Characteristics of a 14.5 Tesla LTQ FT-ICR Mass**

MONDAY POSTERS

POSTER SPACE

- Spectrometer;** Tanner M. Schaub<sup>1</sup>; Greg T. Blakney<sup>1</sup>; Chris L. Hendrickson<sup>1</sup>; John P. Quinn<sup>1</sup>; Michael W. Senko<sup>2</sup>; Alan G. Marshall<sup>1</sup>; <sup>1</sup>*National High Magnetic Field Laboratory, Tallahassee, FL*; <sup>2</sup>*ThermoFisher, San Jose, CA*
- MP 064 **Peak Formation for an Approximately Tuned FTMS Cylindrical Compensated Trap with Modest Numbers of High M/Z Ions by Numerical Simulation;** Don L. Rempel; Adam M. Brustkern; Michael L. Gross; *Washington University, St Louis, MO*
- MP 065 **Investigation of Mass Measurement Accuracy of Intact Proteins and Product Ions using Hybrid Fourier Transform Ion Cyclotron Resonance Mass Spectrometry;** D. Keith Williams, Jr.; Adam M. Hawkridge; David C. Muddiman; *North Carolina State University, Raleigh, NC*
- MP 066 **Minimization of Mass Discrimination due to Time-of-Flight Dispersion in External Source Fourier Transform Ion Cyclotron Resonance Mass Spectrometry;** Christopher L. Hendrickson<sup>1</sup>; Maria van Agthoven<sup>1</sup>; Steven C. Beu<sup>2</sup>; Greg T. Blakney<sup>1</sup>; Alan G. Marshall<sup>1</sup>; <sup>1</sup>*National High Magnetic Field Laboratory, Tallahassee, FL*; <sup>2</sup>*SC Beu Consulting, Austin, TX*
- MP 067 **Improved Data Acquisition System for Fourier Transform Ion Cyclotron Resonance Mass Spectrometry;** Greg T. Blakney; Christopher L. Hendrickson; Alan G. Marshall; *ICR Program, NMFLL, Tallahassee, FL*
- MP 068 **Carbon Cluster Structural Characterization by Gas-Phase Ion-Molecule Reactions in an FT-ICR Mass Spectrometer;** Jeremiah M. Purcell<sup>1</sup>; Christopher L. Hendrickson<sup>1</sup>; Paul W. Dunk<sup>2</sup>; Harold W. Kroto<sup>2</sup>; Alan G. Marshall<sup>1</sup>; <sup>1</sup>*National High Magnetic Field Laboratory, Tallahassee, Florida*; <sup>2</sup>*Florida State University, Tallahassee, Florida*
- MP 069 **The New Possibilities in Ion Clouds Dynamic Simulation using Supercomputers: Application to FTICR, Kingdon Trap and Accumulation Quadrupole Devices;** Eugene Nikolaev<sup>1</sup>; Ron Heeren<sup>2</sup>; Alexander Popov<sup>3</sup>; Alexander Pozdnev<sup>3</sup>; Gleb Vladimirov<sup>4</sup>; <sup>1</sup>*The Institute for Energy Problems of Chemical Phys, Moscow, Russian Federation*; <sup>2</sup>*FOM Institute for Atomic and Molecular Physics, Amsterdam, Netherlands*; <sup>3</sup>*Moscow State University, Moscow, Russia*; <sup>4</sup>*The Institute for Biochem Phys Russian Acad. of Sc, Moscow, Russia*
- MP 070 **SIMION Modeling of Ion Transfer in RF-Only Multipole Ion Guides Immersed in Strong Magnetic Field Gradients;** Steve C. Beu<sup>1</sup>; Christopher L. Hendrickson<sup>2</sup>; Alan G. Marshall<sup>2</sup>; <sup>1</sup>*SC Beu Consulting, Austin, TX*; <sup>2</sup>*National High Magnetic Field Laboratory, Tallahassee, FL*; <sup>3</sup>*Florida State University, Tallahassee, FL*
- MP 071 **Study of Radial Electric Fields and Ion Cloud Coherence;** Nathan Kaiser; Brian Webb; James Bruce; *Washington State University, Pullman, WA*
- MP 072 **Optimal Event Sequences for Octopole-Quadrupole-Octopole External Introduction for Fourier Transform Ion Cyclotron Resonance Mass Spectrometry;** Maria Van agthoven<sup>1</sup>; Steven C. Beu<sup>2</sup>; Greg T. Blakney<sup>1</sup>; John P. Quinn<sup>1</sup>; Christopher L. Hendrickson<sup>1</sup>; Alan G. Marshall<sup>1</sup>; <sup>1</sup>*National High Magnetic Fields Laboratory, Tallahassee, FL*; <sup>2</sup>*SC Beu Consulting, Austin, TX*

POSTER SPACE

INSTRUMENTATION: TOF

073 - 089

- MP 073 **Multi-Push Enhanced Duty Cycle for oa-TOF Mass Spectrometers;** Daniel J Kenny; Steven D Pringle; Jason L Wildgoose; *Waters Corporation, Manchester, United Kingdom*
- MP 074 **Building a Novel Imaging Mass Spectrometer Based on a Multi-turn TOF Geometry;** Yasuhide Naito<sup>1</sup>; Manabu Heya<sup>1</sup>; Hirofumi Nagao<sup>2</sup>; Katsuyoshi Masuda<sup>3</sup>; Hisanao Hazama<sup>4</sup>; Ren Suzuki<sup>4</sup>; Kunio Awazu<sup>4</sup>; Ken-ichi Fujii<sup>5</sup>; Michisato Toyoda<sup>5</sup>; <sup>1</sup>*GPI, Hamamatsu, Japan*; <sup>2</sup>*Osaka Prefecture University, Osaka, Japan*; <sup>3</sup>*Suntory Institute for Bioorganic Research, Osaka, Japan*; <sup>4</sup>*Graduate School of Engineering, Osaka University, Osaka, Japan*; <sup>5</sup>*Graduate School of Science, Osaka University, Osaka, Japan*
- MP 075 **Lifetimes of Biomolecule Ions Depending on MALDI Matrices Measured by a Multi-Turn Time-of-Flight Mass Spectrometer, MULTUM II;** Hisanao Hazama<sup>1</sup>; Yasuhide Naito<sup>2</sup>; Ken-ichi Fujii<sup>3</sup>; Michisato Toyoda<sup>3</sup>; Katsuyoshi Masuda<sup>4</sup>; Hirofumi Nagao<sup>5</sup>; Ren Suzuki<sup>1</sup>; Kunio Awazu<sup>1</sup>; <sup>1</sup>*Graduate School of Engineering, Osaka University, Suita, Osaka, Japan*; <sup>2</sup>*GPI, Hamamatsu, Shizuoka, Japan*; <sup>3</sup>*Graduate School of Science, Osaka University, Toyonaka, Osaka, Japan*; <sup>4</sup>*Suntory Institute for Bioorganic Research, Mishima-gun, Osaka, Japan*; <sup>5</sup>*Osaka Prefecture University, Sakai, Osaka, Japan*
- MP 076 **The Application of High Speed Oscilloscope Analog-to-Digital Converters to Time-of-Flight Mass Spectrometry;** August J. Hidalgo; John C. Fjeldsted; William Frazer; *Agilent Technologies, Santa Clara, CA*
- MP 077 **Construction of a Tandem TOF Mass Spectrometer with a Spiral TOF Mass Spectrometer and an Offset Parabolic Ion Mirror;** Takava Satoh<sup>1</sup>; Takafumi Satoh<sup>1</sup>; Jun Tamura<sup>1</sup>; Robert DiPasquale<sup>2</sup>; <sup>1</sup>*JEOL Ltd., Akishima, Japan*; <sup>2</sup>*JEOL USA, Inc., Peabody, MA*
- MP 078 **A Pulsed Orthogonal Electrospray Time-of-Flight Mass Spectrometer with Constant-Momentum/Energy-Selection;** Douglas F. Barofsky; Benjamin J. Bythell; *Oregon State University, Corvallis, OR*
- MP 079 **Applications of High Resolution TOF MS in Low Mass Region. Use of Mass Defect;** Boris Kozlov; Vasilij Makarov; Yurii Hasin; Ekaterina Podolskaya; Yaroslav Lutvinskii; Maria Apatskaya; Nikolay Krasnov; Sergey Kirillov; Anatolii Verentchikov; *Institute for Analytical Instrumentation, RAS, St. Petersburg, Russia*
- MP 080 **The Analysis of Biomacromolecules using a MALDI TOF Mass Spectrometer Incorporating a Superconducting Tunnel Junction (STJ) Cryodetector;** Mark E. Bier<sup>1</sup>; Abdil Ozdemir<sup>1</sup>; Alex A. Aksenov<sup>1</sup>; Roger W. Hendrix<sup>2</sup>; Brian Firek<sup>2</sup>; <sup>1</sup>*Carnegie Mellon University, Pittsburgh, PA*; <sup>2</sup>*University of Pittsburgh, Pittsburgh, PA*
- MP 081 **Evaluating the Influence of Fast Polarity Switching on Mass Accuracy with MSn Analysis;** Satoshi Yamaki; Kiyomi Arakawa; Yusuke Inohana; Ichiro Hirano; Shinichi Yamaguchi; Junko Iida; Takashi Hine; *Shimadzu Corporation, Kyoto, Japan*
- MP 082 **Quantitative Comparison of Sensitivity and Saturation for MALDI-TOF Detectors When Measuring Complex and High Mass Samples;** Ryan J Wenzel<sup>1</sup>; Susanne Kern<sup>2</sup>; Alexis Nazabal<sup>1</sup>; Renato Zenobi<sup>2</sup>; <sup>1</sup>*CovalX AG, Zürich, Switzerland*; <sup>2</sup>*ETHZ, Zürich, Switzerland*

MONDAY POSTERS

POSTER SPACE

- MP 083 **Determination of Antipsychotic Drugs in Rat Plasma using Liquid Chromatography-Time-of-Flight Mass Spectrometry;** Leah N. Williamson<sup>1</sup>; Guodong Zhang<sup>1</sup>; Alvin V. Terry, Jr.<sup>2</sup>; Michael G. Bartlett<sup>1</sup>; <sup>1</sup>*The University of Georgia, Athens, GA*; <sup>2</sup>*Medical College of Georgia, Augusta, GA*
- MP 084 **Extended Mass Range Ion Detector for Time-of-Flight Mass Analysis;** Michael S. Westphall; Mark Scalf; Lloyd M. Smith; *University of Wisconsin-Madison, Madison, WI*
- MP 085 **Mass Measurement Accuracy Comparison of Double Focusing Magnetic Sector and Time-of-Flight Mass Analyzers;** Matthew M. Lyndon; Robert B. Dixon; Michael S. Bereman; David C. Muddiman; *North Carolina State University, Raleigh, NC*
- MP 086 **Improving Resolution Homogeneity in TOF/TOF Mass Spectra by using a Pulsed Variable Voltage Single Stage Ion Mirror;** Cristian Santacruz; Edy Ayala; Cesar Costa-Vera; *Escuela Politecnica Nacional, Quito, ECUADOR*
- MP 087 **Design of a High Performance Electrospray/Axial Time-of-Flight (a-ToF) Mass Spectrometer;** Brian G. Frederick<sup>1</sup>; Bronson H. Crothers<sup>1</sup>; Linda DeNoyer<sup>2</sup>; Robert H. Jackson<sup>1</sup>; Stephen A. Lammert<sup>1</sup>; L. Jay Legore<sup>1</sup>; Daniel P. Martin<sup>3</sup>; Zhongyu Yang<sup>1</sup>; <sup>1</sup>*Stillwater Scientific Instruments, Inc., Orono, ME*; <sup>2</sup>*Spectrum Square Associates, Ithaca, NY*; <sup>3</sup>*Launch Momentum, Falmouth, ME*
- MP 088 **Adding Dimension To Nanomaterials Production Analysis: Examining Nanotubes and Fullerenes by Ion Mobility TOF MS;** Michael Ugarov<sup>1</sup>; Thomas Egan<sup>1</sup>; Albert Schultz<sup>1</sup>; Ernest Lewis<sup>2</sup>; Robert Hauge<sup>2</sup>; <sup>1</sup>*Ionwerks, Houston, TX*; <sup>2</sup>*Rice University, Smalley Institute, Houston, TX*
- MP 089 **Ultrafast Cryogenic Detectors for Mass Spectrometry;** Masataka Ohkubo<sup>1</sup>; Kouji Suzuki<sup>1</sup>; Zhen Wang<sup>2</sup>; Shigehito Miki<sup>2</sup>; Yohei Kobayashi<sup>1</sup>; Shigetomo Shiki<sup>1</sup>; <sup>1</sup>*AIST, Tsukuba, Japan*; <sup>2</sup>*NICT, Kobe, Japan*

ION ACTIVATION / DISSOCIATION  
090 - 101

- MP 090 **Comparison of Activation Energies for Phosphopeptide-Phosphate Dissociation in an FTICR Mass Spectrometer using IRMP with a Tunable CO<sub>2</sub> laser;** Wright Pearson; *University of Florida, Gainesville, FL*
- MP 091 **Investigations of the Effects of Different Collision-Energy Regimes on Derived Thermochemistry from the Extended Kinetic Method;** Maria Happel<sup>1</sup>; Mary Disa Raulfs<sup>1</sup>; Paul G. Wenthold<sup>2</sup>; John C. Poutsma<sup>1</sup>; <sup>1</sup>*College of William & Mary, Williamsburg, VA*; <sup>2</sup>*Purdue University, West Lafayette, IN*
- MP 092 **Calibration of Ion Effective Temperatures by CID in a Quadrupole Ion Trap Mass Spectrometer;** Geng Li; T.J. Ye; Jenny Pui Shan Wang; Rebecca Jockusch; *University of Toronto, Toronto, Canada*
- MP 093 **Characterization of Free Radical Spin Adducts of Cyclic Nitrones using Electrospray-Tandem Mass Spectrometry;** Inas El Hassan; Beatrice Tuccio; Robert Lauricella; Laurence Charles; *University Aix-Marseille I & III, Marseille Cedex 20, France*
- MP 094 **Novel MS<sup>n</sup> Methods for the Study of Gas Phase Ion/Ion Reactions with a Quadrupole Time-of-Flight Tandem Mass Spectrometer;** Yu Xia; Scott A. McLuckey; *Purdue University, West Lafayette, IN*

POSTER SPACE

- MP 095 **Increasing Confidence for High Throughput Peptide Sequencing with a Position Sensitive Detection System in an MALDI-IM-SID-TOF MS Instrument;** Wenjian Sun; Jody C. May; David H. Russell; *Texas A&M University, College Station, TX*
- MP 096 **Collision-Induced Fragmentation of c and z' Ions Formed from Protonated Polypeptides via Gas-Phase Ion/Ion Electron Transfer;** Hongling Han; Yu Xia; Scott A. McLuckey; *Purdue University, West Lafayette, IN*
- MP 097 **A New Collision Cell for an Older Mass Spectrometer;** Richard H. Scheel; *Mich. Dept. of Commun Health, Lansing, MI*
- MP 098 **Internal Energy Relaxation of Different Mass Peptide Ions in Quadrupole Ion Trap Mass Spectrometry;** Maria P Demireva; Philip M Remes; Gary L Glish; *The University of North Carolina at Chapel Hill, Chapel Hill, NC*
- MP 099 **Increasing Fragment Mass Range by Infrared Multiphoton Dissociation in a Digital Ion Trap Mass Spectrometer;** Kengo Takeshita; Osamu Furuhashi; Takahiro Harada; Kiyoshi Ogawa; Shinichi Iwamoto; Sadanori Sekiya; Yoshikazu Yoshida; *Shimadzu Corporation, Kyoto, Japan*
- MP 100 **High speed "Cascade" Electron Capture Dissociation in RF Ion Trap;** Takashi Baba; *CRL, Hitachi, Kokubunji, Japan*
- MP 101 **On the Time Scale of Internal Energy Relaxation of MALDI and ESI ions in a Quadrupole Ion Trap;** Philip M Remes; Maria P Demireva; Gary L Glish; *University of North Carolina-Chapel Hill, Chapel Hill, NC*

ION STRUCTURES / ENERGETICS I  
102 - 119

- MP 102 **Entropic Effects of Substituted Phenols in the Gas-Phase Evidenced using the Kinetic Method;** Sandrine Voillard<sup>1</sup>; Françoise Fournier<sup>1</sup>; Yves Jacquot<sup>1</sup>; Carlos Afonso<sup>1</sup>; Guy Leclercq<sup>2</sup>; Jean-Claude Tabet<sup>1</sup>; <sup>1</sup>*University P. and M. Curie, Paris Cedex 05, France*; <sup>2</sup>*Institute Jules Bordet, Brussels, Belgium*
- MP 103 **Nitronic Acid Radical-Cations in the Gas Phase;** Miroslav Polasek; Jiri Kubista; *J. Heyrovsky Inst of Physical Chemistry, Praha 8, Czech Republic*
- MP 104 **Use of IRMPD/ECD to Probe Long-lived Radical Intermediates;** Jason J Cournoyer; Cheng Lin; Peter B O'Connor; *Boston University Medical School, Boston, MA*
- MP 105 **Investigation of the Mechanism of Elimination of Ketene from Protonated 2-Methoxy- and 2-Hydroxy-Benzalacetophenone: Experiment and Theory;** George Mathai<sup>2</sup>; V. S. Sebastian<sup>2</sup>; R. Srinivas<sup>3</sup>; P. Nagi Reddy<sup>3</sup>; Daryl Giblin<sup>1</sup>; Michael L. Gross<sup>1</sup>; <sup>1</sup>*Washington University, St Louis, MO*; <sup>2</sup>*Sacred Heart College, Thevara, Kochi, India*; <sup>3</sup>*Indian Institute of Chemical Technology, Hyderabad, India*
- MP 106 **Gas Phase Synthesis and Characterization of Twisted Amides: Experimental Determination of the Proton Affinity of 2-Quinuclidone, Consequences for Peptide Fragmentation;** Tony Ly; Ryan R. Julian; *University of California at Riverside, Riverside, CA*
- MP 107 **Tandem MS and Wavelength-selective IRMP of Discrete Vanadyl-acetone Complexes;** Zach Parsons<sup>1</sup>; Christopher Leavitt<sup>1</sup>; Winnie Chien<sup>1</sup>; Michael Kullman<sup>1</sup>; Gary Gresham<sup>2</sup>; Nick Polfer<sup>3</sup>; Jos Oomens<sup>3</sup>; Gary Groenewold<sup>2</sup>; Michael J. Van stipdonk<sup>1</sup>; <sup>1</sup>*Wichita State*

MONDAY POSTERS

POSTER SPACE

- University, Wichita, KS; <sup>2</sup>Idaho National Laboratory, Idaho Falls, ID; <sup>3</sup>FOM Institute for Plasma Physics, Nieuwegein, The Netherlands
- MP 108 **Direct Comparison of the H/D Exchange Rates of Methyl Group Hydrogens on Macrocyclic Ligands of Ni Complexes by Mass Spectrometry;** Chang-nan Chen<sup>1</sup>; Jianhua Ren<sup>2</sup>; O. David Sparkman<sup>2</sup>; Patrick R. Jones<sup>2</sup>; <sup>1</sup>Chaoyang University of Technology, Taichung, Taiwan; <sup>2</sup>University of the Pacific, Stockton, CA
- MP 109 **Cyclization of 2-acyl- and 2-thioacylamino benzylcyclopropanes in the Gas Phase and Solution;** Albert T. Lebedev<sup>1</sup>; Gianluca Giorgi<sup>2</sup>; Sergey Mochalov<sup>1</sup>; Alexandr Fedotov<sup>1</sup>; <sup>1</sup>Moscow State University, Moscow, Russian Federation; <sup>2</sup>Universita di Siena, Siena, Italy
- MP 110 **Fragmentation of Adenine-Steroid Adducts: Experimental and Theoretical Studies;** Daryl Giblin<sup>1</sup>; Qiang Zhang<sup>1</sup>; Harald Koefeler<sup>2</sup>; Zhi Yang<sup>1</sup>; Michael L. Gross<sup>1</sup>; <sup>1</sup>Washington University, St. Louis, MO; <sup>2</sup>Medizinische Universität Graz, Graz, Austria
- MP 111 **Electrospray Mass Spectrometry and ES-MS/MS of Hole-Transport Materials: Formation of Open-Shell Molecular Radical Cations and Remarkable MSn Fragmentation Behaviour;** Mathias Schäfer<sup>1</sup>; Andreas Springer<sup>2</sup>; Philipp Zacharias<sup>3</sup>; Klaus Meerholz<sup>3</sup>; <sup>1</sup>Inst. Organic Chemistry University of Cologne, Cologne, Germany; <sup>2</sup>Dep. Chemistry, Humboldt Universität zu Berlin, Berlin, Germany; <sup>3</sup>Inst Phys. Chemistry, University of Cologne, Cologne, Germany
- MP 112 **Noncovalent Interactions of Ni<sup>+</sup> with N-Donor Ligands: (Pyridine, 4,4-Dipyridyl, 2,2-Dipyridyl and 1,10-Phenanthroline) Collision-Induced Dissociation and Theoretical Studies;** Nalaka Rannulu; Mary T. Rodgers; Wayne State University, Detroit, MI
- MP 113
- MP 114 **ESI/MS Studies of the Fragmentation Patterns of Metallated Phthalocyanines;** Sara Hashemi; Michael J. Y. Jarvis; Diethard K. Bohme; York University, Toronto, Canada
- MP 115 **Thermal Dehydration of Gaseous Ions: Master Equation Dynamics and Electrodynamic Ion Trap Experiments;** Jason R. Green; Miriam Fico; Igal Szleifer; R. Graham Cooks; Purdue University, West Lafayette, IN
- MP 116 **Potassium Ion Affinities of Commonly Used MALDI Matrices: Determined by Guided Ion Beam Tandem Mass Spectrometry;** Manoj Chinthaka Sinhapura-Dewage; Mary T. Rodgers; Wayne State university, Detroit, MI
- MP 117 **Examination of Gas-Phase Ion Structures of Cationized Guanidiniocarbonyl pyrroles by Infrared Multi Photon Dissociation (IRMPD) Spectroscopy and Computational Modeling;** Miriam Drayss<sup>1</sup>; Mathias Schäfer<sup>1</sup>; Carsten Schmuck<sup>2</sup>; Dirk Blunk<sup>1</sup>; Nick C. Polfer<sup>3</sup>; Jos Oomens<sup>3</sup>; Sebastian Schlund<sup>2</sup>; Bernd Engels<sup>2</sup>; <sup>1</sup>University of Cologne, Cologne, Germany; <sup>2</sup>University of Wuerzburg, Wuerzburg, Germany; <sup>3</sup>Fom Institute for Plasmaphysics Rijnhuizen, Nieuwegein, the Netherlands
- MP 118 **Determination of Relative Activation Energies for Metal-Ligand Bond Breaking by IR Multiphoton Dissociation FT-ICR Mass Spectrometry;** Gregory A. Khitrov<sup>1</sup>; Norris W. Hoffman<sup>2</sup>; Alan G. Marshall<sup>1</sup>; <sup>1</sup>Florida State University, Tallahassee, FL; <sup>2</sup>University of South Alabama, Mobile, AL

POSTER SPACE

- MP 119 **Functional Group "Tagging" for Vibrational Spectroscopy of Peptides Using IRMPD;** Michael Van Stipdonk<sup>1</sup>; Chawalee Chueachavalit<sup>1</sup>; Kara Griffith<sup>1</sup>; Varoon Bashyakarla<sup>4</sup>; Michael Kullman<sup>1</sup>; Gary Groenewold<sup>2</sup>; Gary Gresham<sup>2</sup>; Nick Polfer<sup>3</sup>; Jos Oomens<sup>3</sup>; <sup>1</sup>Wichita State University, Wichita, KS; <sup>2</sup>Idaho National Laboratory, Idaho Falls, ID; <sup>3</sup>FOM Institute for Plasma Physics, Nieuwegein, The Netherlands; <sup>4</sup>Wichita Collegiate School, Wichita, KS

PEPTIDES: FRAGMENTTION & SEQUENCING I  
120 - 133

- MP 120 **Electron Capture Dissociation: Effects of Charge State and Sequence on the Hydrogen Transfer;** Takashi Nishikaze; Mitsuo Takayama; Yokohama City University, Yokohama, Japan
- MP 121 **Inconvenient Reality: Is the "Hydrogen-shift" in Electron Capture Dissociation of Peptide Backbone Predictable?;** Takemichi Nakamura<sup>1</sup>; Yayoi Hongo<sup>1</sup>; Akihiro Sato<sup>2</sup>; <sup>1</sup>RIKEN Discovery Research Institute, Wako, Japan; <sup>2</sup>Jasco International Co., Ltd., Hachioji, Japan
- MP 122 **ECD of Doubly- and Triply-Protonated Peptides from Trypsin and Glu-C Digestion Reveals Similarities and Differences Compared to ETD;** Anastasia Kalli; Kristina Håkansson; University of Michigan, Ann Arbor, MI
- MP 123 **Exploration of the Gas-Phase Radical Ion Chemistry of Metal-Adducted Peptides by use of Chemical Tags;** Jason W Kieltyka; Haichuan Liu; Kristina Håkansson; University of Michigan, Ann Arbor, MI
- MP 124 **Iterative Database Searching Allows for Multiple Peptide Sequence Identifications from a Single ETD Tandem Mass Spectrum;** Matthew Wirtala<sup>1</sup>; Rich D. LeDuc<sup>2</sup>; Doug Phanstiel<sup>1</sup>; Neil L. Kelleher<sup>2</sup>; Joshua J. Coon<sup>1</sup>; <sup>1</sup>University of Wisconsin - Madison, Madison, WI; <sup>2</sup>University of Illinois at Urbana-Champaign, Urbana-Champaign, IL
- MP 125 **Comparing Collision Induced Dissociation (CID) with Trypsin and Electron Transfer Dissociation (ETD) with Lys-C for Identification of Human Plasma Proteins;** Shanhua Lin; Thomas Shaler; Christopher Becker; *PPD, Menlo Park, CA*
- MP 126 **Enhancement of ETD Fragmentation Efficiency by a Fixed-Charge Modification Strategy;** April L. Jue; Casey J. Krusemark; Peter J. Belshaw; Joshua J. Coon; University of Wisconsin at Madison, Madison, WI
- MP 127 **The Effect of Fixed Charge Modifications on Electron Capture Dissociation;** Xiaojuan Li; Jason J. Cournoyer; Cheng Lin; Peter B. O'Connor; Boston University School of Medicine, Boston, MA
- MP 128 **Comparison of Parameters for Activation and Detection of ECD Fragment Ions for ECD on LC-Timescale;** Bernard Delanghe<sup>1</sup>; Martin Zeller<sup>1</sup>; Eugen Damoc<sup>1</sup>; Kerstin Strupat<sup>1</sup>; Robert Malek<sup>1</sup>; Michaela Scigelova<sup>2</sup>; <sup>1</sup>Thermo Fisher Scientific, Bremen, Germany; <sup>2</sup>Thermo Fisher Scientific, Hemel Hempstead, UK
- MP 129 **Sequencing a Phosphohistidine Peptide using MS/MS and Ion-Electron Reactions;** Anne J. Kleinnijenhuis; Frank Kjeldsen; Kim F. Haselmann; Morten Kirkegaard; Ole N. Jensen; University of Southern Denmark, Odense SV, Denmark
- MP 130 **Charge State Dependence of Proton Transfer versus Electron Transfer in a Gas-Phase Ion/Ion Electron Transfer Dissociation Process;** Jian Liu; Yu Xia;



MONDAY POSTERS

POSTER SPACE

- Xiaorong Liang; Scott A. McLuckey; *Purdue University, West Lafayette, IN*
- MP 131 **Characterization of Intact Proteins by Electron Transfer Dissociation on a Linear Ion-Trap Mass Spectrometer;** Jason L. Richardson; Zhongqi Zhang; *Amgen, Thousand Oaks, CA*
- MP 132 **Systematic Investigation of Electron Transfer Dissociation Anion Efficiency;** Jason Keith; Graeme C. McAlister; Joshua J. Coon; *University of Wisconsin-Madison, Madison, WI*
- MP 133 **ECD/ETD-type Fragmentation Induced at (or near) Atmospheric Pressure;** Andrey N. Vilkov; Victor V. Laiko; Alexander S. Misharin; Vladimir M. Doroshenko; *MassTech Inc., Columbia, MD*

**HYDROCARBON & PETROCHEMICAL  
134 - 150**

- MP 134 **IR Spectroscopy of Higher Diamondoids and Astrophysical Implications;** Jos Oomens<sup>1</sup>; Olivier Pirali<sup>1</sup>; Nick C. Polfer<sup>1</sup>; Jeremy E Dahl<sup>2</sup>; Robert M.K. Carlson<sup>2</sup>; Yuko Ueno<sup>3</sup>; Alexander G.G.M. Tielens<sup>4</sup>; <sup>1</sup>*FOM Rijnhuizen, Nieuwegein, Netherlands*; <sup>2</sup>*MolecularDiamond Technologies, Richmond, CA*; <sup>3</sup>*University of California, Berkeley, CA*; <sup>4</sup>*NASA Ames Research Center, Moffett Field, CA*
- MP 135 **Asphaltene Inhibitor Performance in Relation to Detailed Polar Chemical Composition Derived from FT-ICR Mass Spectrometry;** Donald F. Smith<sup>1</sup>; Geoffrey C. Klein<sup>2</sup>; Andrew T. Yen<sup>3</sup>; Michael P. Squicciarini<sup>3</sup>; Ryan P. Rodgers<sup>4</sup>; Alan G. Marshall<sup>4</sup>; <sup>1</sup>*Florida State University, Tallahassee, FL*; <sup>2</sup>*Christopher Newport University, Newport News, VA*; <sup>3</sup>*Baker Petrolite, Sugar Land, TX*; <sup>4</sup>*Ion Cyclotron Resonance Program, NHMFL, Tallahassee, FL*
- MP 136 **Automated Electrospray Ionization FT-ICR Mass Spectrometry for Petroleum Analysis;** Ryan P. Rodgers<sup>1</sup>; Sunghwan Kim<sup>3</sup>; Christopher L. Hendrickson<sup>1</sup>; Greg T. Blakney<sup>1</sup>; Alan G. Marshall<sup>2</sup>; <sup>1</sup>*Nat'l High Magnetic Field Lab, Tallahassee, FL*; <sup>2</sup>*Department of Chemistry and Biochemistry, FSU, Tallahassee, FL*; <sup>3</sup>*Korea Basic Science Institute, 52 Yeoeun-Dong., Daejeon, South Korea*
- MP 137 **Biomass Combustion Aerosols Studied with Single-Particle Mass Spectrometry;** Deborah Gross<sup>1</sup>; Dabrina D. Dutcher<sup>2</sup>; H. Joakim Pagels<sup>2</sup>; Mark R. Stolzenburg<sup>2</sup>; Anil Bika<sup>2</sup>; Marcus K. Drayton<sup>2</sup>; Luke Franklin<sup>2</sup>; David B. Kittelson<sup>2</sup>; Peter H. McMurry<sup>2</sup>; <sup>1</sup>*Carleton College, Northfield, MN*; <sup>2</sup>*University of Minnesota, Minneapolis, MN*
- MP 138 **Biodiesel Analysis by LC/MS;** Jennifer Huang; Ray Chen; Edward Long; *Thermo Fisher Scientific, San Jose, CA*
- MP 139 **Characterization of Individual Diesel Exhaust Particles by a Laser-Ionization Single-Particle Aerosol Mass Spectrometer;** Akihiro Yabushita<sup>1</sup>; Masahiro Narukawa<sup>2</sup>; Kenshi Takahashi<sup>2</sup>; Yutaka Matsumi<sup>2</sup>; <sup>1</sup>*Kyoto University, Kyoto, Japan*; <sup>2</sup>*STE Laboratory, Nagoya University, Toyokawa, Japan*
- MP 140 **Low Resolution Mass Analysis of Asphaltene Structures--Archipelago vs. Island Models;** Brandie M. Ehrmann; Ryan P. Rodgers; Alan G. Marshall; *National High Magnetic Field Lab, Tallahassee, Florida*
- MP 141 **Complex Mixtures Analyses by FTICR-MS using Statistics of Mass Differences;** Erast V. Kunenkov<sup>1</sup>; Alexey S. Kononikhin<sup>3</sup>; Irina V. Perminova<sup>1</sup>; Andrey V. Garmash<sup>1</sup>; Igor A. Popov<sup>3</sup>; Eugene Nikolaev<sup>2</sup>; <sup>1</sup>*Moscow*

POSTER SPACE

- State University, Moscow, Russia*; <sup>2</sup>*The Institute for Energy Problems of Chemical Phys, Moscow, Russian Federation*; <sup>3</sup>*The Institute for Biochem. Phys. Rus. Ac. Sc., Moscow, Russia*
- MP 142 **Hydrocarbon Type Analysis of Lubricating Oil and Vacuum Distillate Hydrocarbon by Field Ionization Mass Spectrometry;** Myoung-han No; *SK Institute of Technology, Daejeon, South Korea*
- MP 143 **Study of Type Analysis for Petroleum Products by using Direct Inlet / Field Ionization and Field Desorption;** Masaaki Ubukata<sup>1</sup>; Akihiko Kusai<sup>1</sup>; Junichi Osuga<sup>1</sup>; Kazuo Tanaka<sup>1</sup>; Doug Meinhart<sup>2</sup>; <sup>1</sup>*JEOL Ltd., Akishima, Japan*; <sup>2</sup>*JEOL USA, Inc., Peabody, MA*
- MP 144 **Aggregation of Naphthenic Acids Studied by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry;** Raffaello Da Campo<sup>1</sup>; Mark P. Barrow<sup>1</sup>; Malcolm Salisbury<sup>2</sup>; Andrew Shepherd<sup>3</sup>; Peter J. Derrick<sup>1</sup>; <sup>1</sup>*University of Warwick, Coventry, United Kingdom*; <sup>2</sup>*Shell Global Solutions (UK), Chester, United Kingdom*; <sup>3</sup>*Shell Global Solutions International B.V., Amsterdam, The Netherlands*
- MP 145 **Crude Oil Analysis by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry using Different Ionization Techniques;** Matthias Witt; *Bruker Daltonik GmbH, Bremen, Germany*
- MP 146 **Compositional Analysis of Fossil Fuels by Liquid Chromatography and FT-ICR Mass Spectrometry;** Saroj K. Panda<sup>1</sup>; Jan T. Andersson<sup>2</sup>; Wolfgang Schrader<sup>1</sup>; <sup>1</sup>*Max-Planck-Institut für Kohlenforschung, Mülheim / Ruhr, Germany*; <sup>2</sup>*Westfälische Wilhelms-Universität Münster, Münster, Germany*
- MP 147 **Electrospray Ionization FT-ICR Mass Spectrometry of Naphthenic Acids in Sodium and Calcium Naphthenate Deposits Extracted by Modified Purification Methods;** Mmilili M. Mapolelo<sup>1</sup>; Lateefah A. Stanford<sup>2</sup>; Andrew Yen<sup>3</sup>; Justin Debord<sup>3</sup>; Sam Asoaming<sup>3</sup>; Ryan P. Rodgers<sup>2</sup>; Alan G. Marshall<sup>2</sup>; <sup>1</sup>*Florida State University, Tallahassee, FL*; <sup>2</sup>*ICR-NHMFL, Florida State University, Tallahassee, FL*; <sup>3</sup>*Baker Petrolite, 12645 W. Airport Blvd, Sugar Land, TX*
- MP 148 **Development of an Algorithm for Computer-Assisted Interpretation of Electron Ionization Mass Spectra Of Hydrocarbons;** Josef Cvacka; Robert Hanus; Miloslav Šanda; Jan Šobotník; Vladimír Vrkošlav; *Institute of Organic Chemistry and Biochemistry, Praha, Czech Republic*
- MP 149 **FT-ICR Mass Spectrometric Analysis of Chemically Derivatized Heavy Ends for Sulfur Speciation: Comparison between Atmospheric Pressure Photolionization and Electrospray Ionization;** Priyanka Juyal; Jeremiah M. Purcell; Do-Gyun Kim; Ryan P. Rodgers; Christopher L. Hendrickson; Alan G. Marshall; Alan G. Marshall; *National High Magnetic Field Laboratory/FSU, Tallahassee, FL*
- MP 150 **Large-Scale Field Study to Determine Compositional Changes of Acidic NSO-Compounds During the Bioremediation of Crude Oil-Contaminated Soil by ESI-FT-ICR MS;** Christine A. Hughey<sup>1</sup>; Samantha A. Galasso<sup>1</sup>; Carina S. Minardi<sup>1</sup>; Mmilili M. Mapolelo<sup>2</sup>; Ryan P. Rodgers<sup>2</sup>; Alan G. Marshall<sup>2</sup>; <sup>1</sup>*Chapman University, Orange, CA*; <sup>2</sup>*Florida State University, Tallahassee, FL*

MONDAY POSTERS

POSTER SPACE

LC/MS  
151 - 169

- MP 151 **Hydrophilic Interaction Chromatography-Mass Spectrometry Technique for the Determination of Estrogens and Their Conjugates in Urine**; Feng Qin; Yuanyuan Zhao; Michael Sawyer; Xing-fang Li; *University of Alberta, Edmonton, AB, Canada*
- MP 152 **ChromEval: Rapid Evaluation of LC-MS Chromatographic Performance**; James Eddes<sup>1</sup>; Daniel B. Martin<sup>2</sup>; Laura Hohmann<sup>1</sup>; Ashley Eastham<sup>1</sup>; Ruedi Aebersold<sup>3</sup>; <sup>1</sup>*Institute for Systems Biology, Seattle, WA*; <sup>2</sup>*The Fred Hutchinson Cancer Research Center, Seattle, WA*; <sup>3</sup>*Institute for Molecular and Systems Biology ETH, Zurich, Switzerland*
- MP 153 **APPI and APCI-LC/MS - Normal Phase Chiral Analysis of Pharmaceuticals**; Sheng-Suan Cai; Karl A. Hanold; Jack A. Syage; *Syagen Technology, Inc., Tustin, CA*
- MP 154 **Application of LC-MALDI for the Analysis of Low Molecular Weight Compounds on Triple Quadrupole Linear Ion Trap**; Gerard Hopfgartner; Lekha Sleno; Emmanuel Varesio; *University of Geneva, Geneva, Switzerland*
- MP 155 **Fast LC/MS/MS for Biomarker Assay Development Using 2.5 Micron Particle LC Columns and Elevated Temperatures**; Hideji Fujiwara; Gary W. Lange; Lucy V. Hetsco; Olga V. Nemirovskiy; *Pfizer Global R&D, Chesterfield, MO*
- MP 156 **In situ and Multi-Substrate Detection of *in vitro* Elastase Enzymatic Activity with Microdialysis Sampling and Mass Spectrometry**; Ying Wang; Dmitri V Zagorevski; Julie A Stenken; *Rensselaer Polytechnic Institute, Troy, NY*
- MP 157 **Analysis of Gutathione 13C Abundance from Human Tissues Using Liquid Chromatography/Isotope Ratio Mass Spectrometry. A Novel and Robust Method**; Henk Schierbeek<sup>1</sup>; Frans Te Braake<sup>1</sup>; Jean Philippe Godin<sup>2</sup>; Laurent Bernard Fay<sup>2</sup>; Johannes B Van Goudoever<sup>1</sup>; <sup>1</sup>*Erasmus University, Rotterdam, Netherlands*; <sup>2</sup>*Nestec Ltd, Nestlé Research Center, Lausanne, Switzerland*
- MP 158 **Quantitation of Citrulline, a Highly Polar Amino Acid and Potential Biomarker, using Mixed-Mode Ion Exchange Chromatography with MS/MS Detection**; Kathleen L Cicero; Maria E Vargek; Richard M LeLacheur; *Taylor Technology, Princeton, NJ*
- MP 159 **The Separation of Small Polar Compounds with Electrocapture /MS**; Peter Michelsen<sup>1</sup>; Gunnar Skarping<sup>1</sup>; Marianne Dahlene<sup>1</sup>; Thomas White<sup>2</sup>; <sup>1</sup>*Analytical Chemistry, Stockholm University, Hässleholm,, Sweden*; <sup>2</sup>*Analytica of Branford, Branford; BioMotif, Stockholm, Sweden*
- MP 160 **Overcoming Endogenous Matrix and Analyte-Related Interference Effects in the Bioanalysis of Polar Analytes using HILIC-MS/MS**; Michael Waldron; Marling Peay; Tianyi Zhang; Bruce Hidy; Rand Jenkins; *PPD, Richmond, VA*
- MP 161 **Conversion of Fatty Acids to Amides for Characterization by ESI-MS**; Justin Lygrisse; Michael Van Stipdonk; *Wichita State University, Wichita, KS*
- MP 162 **Solution Parameters Effecting Electrospray Signal Response and Quantitation in Gradient Reverse Phase Liquid Chromatography Electrospray Mass Spectrometry**; David Welkie; Thomas P. White; Craig

POSTER SPACE

- M. Whitehouse; *Analytica of Branford, Inc., Branford, CT*
- MP 163 **Evaluation of High Temperature Liquid Chromatography- Isotope Ratio Mass Spectrometry (HTLC-IRMS)**; Jean-philippe Godin<sup>1</sup>; Laurent-Bernard Fay<sup>1</sup>; Gérard Hopfgartner<sup>2</sup>; <sup>1</sup>*Nestlé Research Center, Lausanne, Switzerland*; <sup>2</sup>*Life Sciences Mass Spectrometry, School of Pharmacy, Geneva, Switzerland*
- MP 164 **LC/MS Characterizing Library Products Synthesized through DNA Programmed Chemistry**; Guodong Li; Ed Driggers; Jeff Banas; *Ensemble Discovery, Cambridge, MA*
- MP 165 **Examination and Comparison of Solvent Quality and HPLC Stationary Phase Influence on Unspecific Peaks in Mass Spectra**; Alexander Kraus<sup>1</sup>; Gisela Jung<sup>1</sup>; Alla Zilberman<sup>2</sup>; Debbie Stern<sup>3</sup>; Sven Andrecht<sup>1</sup>; <sup>1</sup>*Merck KGaA, Darmstadt, Germany*; <sup>2</sup>*EMD Biosciences, Inc., Madison, WI*; <sup>3</sup>*EMD Chemicals, Gibbstown, NJ*
- MP 166 **Method Development for the Quantitative Analysis of Pyridine Nucleotides Using Novel Capillary Monolithic HILIC Column Coupled to Linear Ion Trap-MS**; Nabil Saad<sup>1</sup>; Eric Kofoid<sup>1</sup>; Kanta Horie<sup>2</sup>; Tohru Ikegami<sup>2</sup>; John Roth<sup>1</sup>; Nobuo Tanaka<sup>2</sup>; Oliver Fiehn<sup>1</sup>; <sup>1</sup>*UC Davis, Davis, CA*; <sup>2</sup>*Kyoto Institute of Technology, Kyoto, Japan*
- MP 167 **Increased Ruggedness of LC-MS/MS Methods by Monitoring Ion Suppression from Phospholipids**; Theodore S. Brus; *Covance Bioanalytical Services, LLC, Indianapolis, IN*
- MP 168 **Analysis by On-Line Capillary Column Immobilized Metal Affinity Chromatography / Electrospray Ionization Mass Spectrometry of Histidine-Containing Peptides**; Gushinder Kaur-Atwal<sup>1</sup>; Daniel J Weston<sup>1</sup>; Philip S Green<sup>2</sup>; Susan Crosland<sup>2</sup>; Philip L.R Bonner<sup>1</sup>; Colin S Creaser<sup>1</sup>; <sup>1</sup>*Nottingham Trent University, Nottingham, United Kingdom*; <sup>2</sup>*Syngenta, Bracknell, United Kingdom*
- MP 169 **Guidelines for Method Development of HILIC-LC-MS/MS: Choice of Columns and Chromatographic Conditions to Handle Matrix Effect due to Phospholipids**; Jean-Nicholas Mess; Cynthia S. Côté; Troy Bradley; Fabio Garofolo; *Algorithme Pharma Inc., Laval (Montreal), QC, Canada*

BIOINFORMATICS: SEARCH ENGINES & ALGORITHMS  
170 - 199

- MP 170 **A Comparison of SEQUEST, Mascot and X!Tandem Search Algorithms and the MALDI-TOF/TOF and LTQ-Orbi Trap Mass Spectrometers**; Maureen T. Kachman; Anastasia K. Yocum; Donna Veine; Angela K. Walker; John R. Strahler; Philip C. Andrews; *University of Michigan, Ann Arbor, MI*
- MP 171 **Automated Identification of Disulfide Bonded Dipeptides using PEAKS and Q-TOF Mass Spectrometry**; Jiaxi Wang<sup>1</sup>; Weiwu Chen<sup>2</sup>; Kirk Green<sup>1</sup>; Bin Ma<sup>2</sup>; <sup>1</sup>*McMaster University, Hamilton, Canada*; <sup>2</sup>*Bioinformatics Solutions Inc., Waterloo, Canada*
- MP 172 **ASCQ\_ME: a New Engine for Protein and Post-Translational Modification Identification from MS and MS/MS Raw Spectrum Without Mass List Extraction**; Jean-Charles Boisson; Olivia Guerre; Laetitia Vermeulen-Jourdan; El-Ghazali Talbi; Christian Rolando; *Univ. des Science/Tech de Lille, Villeneuve d'Ascq, France*

MONDAY POSTERS

POSTER SPACE

- MP 173 **Evaluation of Multiple Search Engines in the Analysis of Leptin-Induced Mitochondrial Protein Expression in Mouse Liver;** John R. Strahler<sup>1</sup>; Angela K. Walker<sup>1</sup>; George Michailidis<sup>1</sup>; Amandeep Singh<sup>2</sup>; Jeffrey Friedman<sup>2</sup>; Philip C. Andrews<sup>1</sup>; <sup>1</sup>University of Michigan, Ann Arbor, MI; <sup>2</sup>Rockefeller University, New York, NY
- MP 174 **An Empirical Mascot Scoring Scheme for High Accuracy Mass Spectrometry that Enhances Peptide Identification;** Markus Brosch; Sajani Swamy; Tim Hubbard; Jyoti Choudhary; *The Wellcome Trust Sanger Institute, Hinxton, Cambridge, United Kingdom*
- MP 175 **Improving de novo Sequencing Accuracy for Ion Trap Data in PEAKS Software;** Denis Yuen<sup>1</sup>; Iain Rogers<sup>1</sup>; Weiwu Chen<sup>1</sup>; Gilles Lajoie<sup>2</sup>; Bin Ma<sup>2</sup>; <sup>1</sup>Bioinformatics Solutions Inc., Waterloo, Canada; <sup>2</sup>University of Western Ontario, London, Canada
- MP 176 **Improving Protein Coverage by de novo Sequence Homology Searching with SPIDER;** Iain Rogers<sup>1</sup>; Michaela Scigelova<sup>2</sup>; Weijie Yang<sup>1</sup>; <sup>1</sup>Bioinformatics Solutions Inc., Waterloo, CANADA; <sup>2</sup>Thermo Fisher Scientific, Hemel Hempstead, United Kingdom
- MP 177 **A Computer Program for Automated Analysis of C Terminus of a Protein by LCMS;** Tatsuru Sasagawa<sup>1</sup>; Satoko Ohta<sup>1</sup>; Yasuko Mizuno<sup>1</sup>; Yumiko Matsuyama<sup>2</sup>; Toshiji Kudo<sup>3</sup>; Takashi Nirasawa<sup>2</sup>; <sup>1</sup>Toray Research Center, 111 Kamakura, Japan; <sup>2</sup>Bruker Daltonics K.K., Yokohama, Japan
- MP 178 **SALAMI - Spectrum Alignments using Accurate Mass and high-sensitivity data;** Flavio Monigatti; Hanno Steen; *Children's Hospital Boston/Harvard Medical School, Boston, MA*
- MP 179 **A Method for Uncovering Novel Peptide Sequences from Extinct Taxa to Mutations in Human Disease;** John M Asara<sup>1</sup>; Matthew Phillips<sup>1</sup>; Shailender Nagpal<sup>2</sup>; Jeffrey A Engelman<sup>3</sup>; Mary H Schweitzer<sup>4</sup>; Lewis C Cantley<sup>1</sup>; <sup>1</sup>Beth Israel Deaconess Medical Center, Boston, MA; <sup>2</sup>Harvard Medical School, Boston, MA; <sup>3</sup>Massachusetts General Hospital, Boston, MA; <sup>4</sup>North Carolina State University, Raleigh, NC; <sup>5</sup>Tanisha Systems, Braintree, MA
- MP 180 **Probability-Based Protein Identification for Post-Translation Modification and Variation Using Peptide Mass Fingerprint Data;** Weiwei Tong<sup>2</sup>; Mark E. McComb<sup>1</sup>; David Perlman<sup>1</sup>; Hua Huang<sup>1</sup>; Peter B. O'Conner<sup>1</sup>; Catherine E. Costello<sup>1</sup>; Zhiping Weng<sup>2</sup>; <sup>1</sup>Cardiovascular Proteomics Center, Boston University, Boston, MA; <sup>2</sup>Department of Biomedical Engineering, Boston Unive, Boston., MA
- MP 181 **New Protein Level Quantitation Features in Protein Prospector;** Peter R Baker; Robert J Chalkley; Jonathan C Trinidad; Alma L Burlingame; *UCSF, San Francisco, CA*
- MP 182 **Confidence Score for de novo Solutions in Tandem Mass Spectrometry;** Andrey A. Gorin; Nikita D. Arnold; Robert M. Day; Tema Fridman; *Oak Ridge National Laboratory, Oak Ridge, TN*
- MP 183 **A Bayesian Classifier Used to Determine Disease Groups and Biomarkers in Blood Protein Samples;** Karl W. Kuschner<sup>1</sup>; D. I. Malyarenko<sup>1</sup>; William E. Cooke<sup>1</sup>; M. Sasinowski<sup>2</sup>; L. H. Cazares<sup>3</sup>; O. J. Semmes<sup>3</sup>; Eugene R. Tracy<sup>1</sup>; <sup>1</sup>College of William and Mary, Williamsburg, VA; <sup>2</sup>INCOGEN, Williamsburg, VA; <sup>3</sup>Eastern Virginia Medical School, Norfolk, VA

POSTER SPACE

- MP 184 **Evaluation of a New MS/MS Search Algorithm for Peptide Identification with ETD Spectra;** Zhiqi Hao; Rovshan Sadygov; Andreas FR Hühmer; *Thermo Fisher Scientific, San Jose, CA*
- MP 185 **RAId\_DbS: Robust Accurate Identification of Peptides in database searches with realistic statistics;** Gelio Alves; Aleksey Ogurtsov; Yi-Kuo Yu; *Computational Biology Branch, NCBI, NLM, NIH, Bethesda, MD*
- MP 186 **Bonanza: Spectral Searching to Find Both Known Peptides and Peptides with Unknown Modifications;** Jayson A. Falkner; Anastasia Yocum; Jarret W. Falkner; Philip C. Andrews; *University of Michigan, Ann Arbor, MI*
- MP 187 **MonsterMod: Software to Identify Mutated and Modified Peptide Tandem MS Spectra using Protein Databases;** Gregory R. Wernke; David L. Tabb; Matthew Chambers; Daniel C. Liebler; Amy-Joan L. Ham; *Vanderbilt University School of Medicine, Nashville, TN*
- MP 188 **An Automated Approach for Assigning Monosaccharide Composition to High-Resolution Mass Spectra of Carbohydrates Using a Combination of Orthogonal Computational Algorithms;** Scott R. Kronewitter; Brian H. Clowers; Carlito B. Lebrilla; *UC Davis, Davis, CA*
- MP 189 **Discovery of Unanticipated Modifications using Protein Prospector;** Robert J. Chalkley; Peter R. Baker; Katalin F. Medzihradzsky; A. L. Burlingame; *UCSF, San Francisco, CA*
- MP 190 **Identification of Proteins with Point Mutations using BIG MASCOT: A New Database Search Engine for Top-Down Proteomics;** Murat N. Karabacak; Ashutosh Tiwari<sup>2</sup>; Lawrence J. Hayward<sup>2</sup>; Michael L. Easterling<sup>3</sup>; Jeffrey N. Agar<sup>1</sup>; <sup>1</sup>Brandeis University, Waltham, MA; <sup>2</sup>University of Massachusetts Medical School, Worcester, MA; <sup>3</sup>Bruker Daltonics Inc., Billerica, MA
- MP 191 **Use of the Dot Product to Assess Mass Spectral Reproducibility;** Alfred L. Yergey; Matthew T. Olson; Paul S. Blank; *NICHD, NIH, Bethesda, MD*
- MP 192 **Hydrogen/Deuterium Exchange of N-acetylphenylalanine: A Computational and Experimental Study;** Cesar Contreras<sup>1</sup>; Nick Polfer<sup>2</sup>; John R. Eyler<sup>1</sup>; <sup>1</sup>University of Florida, Gainesville, FL; <sup>2</sup>FOM Institute for Plasma Physics, Nieuwegein, The Netherlands
- MP 193 **Simple Programs for iTRAQ Bioinformatics;** John S Crabb; Xiaorong Gu; Xianglin Yuan; John W Crabb; *Cole Eye Institute, Cleveland Clinic, Cleveland, OH*
- MP 194 **Data Processing and Database Search Models for Tandem Mass Spectra Obtained via Electron Transfer Dissociation;** Rovshan Sadygov; Zhiqi Hao; Andreas Huhmer; *Thermo Fisher Scientific, San Jose, CA*
- MP 195 **Automated Direct Identification of Disulfide Bonds by use of MassMatrix's Probabilistic Scoring of Tandem Mass Spectra;** Hua Xu; Liwen Zhang; Michael Freitas; *the Ohio State University, Columbus, OH*
- MP 196 **Prediction of QconCAT Peptides using Machine Learning Approaches for Absolute Quantitative Proteomics;** King Wai Lau; Jennifer A Siepen; David Wedge; Claire Eyers; Simon J Gaskell; Simon J Hubbard; *The University of Manchester, Manchester, United Kingdom*

MONDAY POSTERS

POSTER SPACE

- MP 197 **De novo Sequencing of Posttranslationally Modified Peptides**; Matthew T. Olson<sup>1</sup>; Jonathan A. Epstein<sup>1</sup>; Alfred L. Yergey<sup>1</sup>; <sup>1</sup>NIH/NICHD, Bethesda, MD; <sup>2</sup>The George Washington University Medical Center, Washington, DC
- MP 198 **Sliding-Fit Isotope Dilution Quantification Software for Rapid MALDI-TOF MS Analysis of Anthrax Lethal Factor and Botulinum Neurotoxins**; Adrian R Woolfitt<sup>1</sup>; Sara C McGrath<sup>1</sup>; Anne E Boyer<sup>1</sup>; Hercules Moura<sup>1</sup>; Suzanne R Kalb<sup>1</sup>; Maria I Solano<sup>1</sup>; Lisa G McWilliams<sup>2</sup>; James L Pirkle<sup>1</sup>; John R Barr<sup>1</sup>; <sup>1</sup>Centers for Disease Control and Prevention, Atlanta, GA; <sup>2</sup>Battelle Memorial Institute, Atlanta, GA
- MP 199 **MassMatrix: A Database Search Algorithm for High Mass Accuracy Tandem Mass Spectrometry Data Analysis**; Michael A. Freitas; Hua Xu; Ohio State University, Columbus, OH

CARBOHYDRATES & OLIGOSACCHARIDES 1  
200 - 212

- MP 200 **Investigation by Mass Spectrometry of Glycosylation Sites and Glycan Structures in Klotho**; Vivekananda Shetty; Regina Goetz; Moosa Mohammadi; Thomas A. Neubert; New York Univ. Sch. of Medicine, New York, NY
- MP 201 **N-linked Glycosylation Profiling of Pancreatic Cancer Serum using Capillary LC-MS (MS) and MALDI QIT TOF MS**; Jia Zhao<sup>1</sup>; Fan Xiang<sup>3</sup>; Diane M. Simeone<sup>2</sup>; David M. Lubman<sup>2</sup>; <sup>1</sup>University of Michigan Chemistry, Ann Arbor, MI; <sup>2</sup>University of Michigan, Surgery, Ann Arbor, Michigan; <sup>3</sup>Shimadzu Biotech, Pleasanton, CA
- MP 202
- MP 203 **A Refined Paradigm for the Site-Specific Assignment of Protein Glycosylation: Integration of Preparative, Analytical, and Bioinformatic Tools**; Eric D. Dodds; Richard R. Seipert; Brian H. Clowers; Carlito B. Lebrilla; University of California Davis, Davis, CA
- MP 204 **Direct Structural Assignment of Sialylated N-glycans of Glycopeptides using nanoHPLC/ESI-linear IT-TOF MS and MS<sup>n</sup> Spectral Matching**; Hiroki Ito<sup>1</sup>; Kuriko Yamada<sup>1</sup>; Kisaburo Deguchi<sup>2</sup>; Shinji Yoshioka<sup>1</sup>; Shinji Nagai<sup>1</sup>; Hiroaki Nakagawa<sup>2</sup>; Shin-Ichiro Nishimura<sup>2</sup>; <sup>1</sup>Hitachi High-Technologies Corp, Tokyo, JAPAN; <sup>2</sup>Hokkaido University, Sapporo, JAPAN
- MP 205 **Quantification by Isobaric Labeling: Applications to Comparative Glycomics**; Ron Orlando; James A Atwood; Lei cheng; Gerardo Alvarez-Manilla; William S. York; University of Georgia, Athens, GA
- MP 206 **High-Tde hroughput Glycan Analysis using Solid-phase Permethylaton and MALDI/TOF-MS**; Pilsoo Kang; Yehia Mechref; Milos V. Novotny; Indiana University, Bloomington, IN
- MP 207 **Glycan Mass Mapping of Human Serum**; Hyun Joo An; Scott Kronewitter; Caroline Chu; Crystal Kirmiz; Mariana Barboza; Carlito B Lebrilla; University of California, Davis, CA
- MP 208 **A Glycomics Approach for Characterizing Mutations in N- and O-Glycosylation of the Nematode *Caenorhabditis elegans***; Elizabeth Palaima<sup>1</sup>; Maria Joao Gravato-Nobre<sup>2</sup>; Jonathan Hodgkin<sup>2</sup>; Catherine Costello<sup>1</sup>; John Cipollo<sup>1</sup>; <sup>1</sup>Boston University Medical Center, Boston, MA; <sup>2</sup>University Of Oxford, Oxford, United Kingdom
- MP 209 **A Comprehensive Strategy for Analysis of N- and O-linked Glycans from Therapeutic Glycoproteins**

POSTER SPACE

- Combining Online Profiling with Detailed Structure Elucidation**; Andrew J. S. Hanneman; Chee-Keng Ng; Jason C. Rouse; Wyeth BioTech, Andover, MA
- MP 210 **Microwave-Assisted Nonreductive Release of O-linked Glycans: A Method with Numerous Analytical Advantages**; Hui Zhou; David J. Ashline; Vernon N. Reinhold; The Glycomics Center, University of New Hampshire, Durham, NH
- MP 211 **Glycosylation Biomarkers of Malignancy; N-linked Profiles, Isomers, and Structural Details via MSn**; Justin M Prien<sup>1</sup>; Leanne Huysentruyt<sup>2</sup>; Hailong Zhang<sup>1</sup>; Anthony Lapadula<sup>1</sup>; David Ashline<sup>1</sup>; Thomas Seyfried<sup>2</sup>; Vernon Reinhold<sup>1</sup>; <sup>1</sup>University of New Hampshire, Durham, NH; <sup>2</sup>Boston College, Chestnut Hill, MA
- MP 212 **Simultaneous Determination of N-linked Oligosaccharides and O-Glycosylation Sites in Human Serum**; Nannan Tao; Hyun Joo An; Carlito B. Lebrilla; University of California, Davis, Davis, CA

CLINICAL CHEMISTRY  
213 - 232

- MP 213 **An HPLC-MS Method for the Quantification of Urinary Albumin Using In-Source Collision-Induced Fragmentation**; Frank W. Crow; Paula M. Ladwig; David R. Barnidge; Ravinder J. Singh; Ward H. Lutz; John C. Lieske; Timothy S. Larson; Rajiv Kumar; Mayo Clinic, Rochester, MN
- MP 214 **Evaluation of Some Experimental Parameters in the Determination the Ratios of Cortisol to Cortisone and their Tetrahydrometabolites in Urine**; Andrea Raffaelli<sup>1</sup>; Alessandro Saba<sup>2</sup>; Piero Salvadori<sup>2</sup>; <sup>1</sup>CNR ICCOM, Pisa, Italy; <sup>2</sup>University of Pisa - Chemistry Department, Pisa, Italy
- MP 215 **A Rapid and Sensitive Method for Determination of 25-Hydroxyvitamin D in Serum Implementing High Speed Liquid Chromatography Mass Spectrometry**; Marta Kozak; Jennifer Huang; Thermo Fischer Scientific, San Jose, CA
- MP 216 **Preparation of Antibody Affinity Layer on Glyco-affinity MALDI plate**; Mohammad Abul Farah<sup>2</sup>; Jeong Heon Lee<sup>2</sup>; Ha Young Choi<sup>2</sup>; Shambhunath Bose<sup>2</sup>; H. B. Lim<sup>3</sup>; Yangsun Kim<sup>1</sup>; <sup>1</sup>Hudson surface Technology, Newark, NJ; <sup>2</sup>ASTA, Suwon, Korea; <sup>3</sup>Dankook University, Seoul, Korea
- MP 217 **Rapid Screening Assay of Trimethylaminuria with Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry in Urine**; Chien-chen Lai<sup>1</sup>; Wei-Yi Hsu<sup>2</sup>; Fuu-Jen Tsai<sup>2</sup>; <sup>1</sup>National Chung Hsing University, Taichung, Taiwan; <sup>2</sup>China Medical University Hospital, Taichung, Taiwan
- MP 218 **Direct Analysis of Ribavirin Triphosphate in Human Whole Blood Using LC-MS/MS**; Zhixia Yan; Wenkui Li; Harold T. Smith; Francis L.S. Tse; Novartis Pharmaceuticals Corporation, East Hanover, NJ
- MP 219 **Characterization of the Bladder Cancer Urine Proteome Utilizing Large Dilution-Reconcentration Approach with Liquid Chromatography/Mass Spectrometry**; Pao-chi Liao; Yu-Chang Tyan; How-Ran Guo; Lia-Beng Tan; National Cheng Kung University, Tainan, Taiwan
- MP 220 **Congenital Adrenal Hyperplasia: On-line Cleanup in the Assessment of Involved Steroids out of Dried Blood Spots**; Alessandro Saba<sup>1</sup>; Andrea Raffaelli<sup>2</sup>; Paolo Ghirri<sup>3</sup>; Piero Salvadori<sup>1</sup>; <sup>1</sup>University of Pisa - Chemistry Department, Pisa, Italy; <sup>2</sup>CNR - ICCOM,

MONDAY POSTERS

POSTER SPACE

- MP 221 **Determination of Asymmetric Dimethylarginine (ADMA) in Myocardial Necrosis Patients using Gradient Chromatofocusing HPLC-ESI-MS/MS;** Jianhua Tang<sup>1</sup>; Lian Shan<sup>2</sup>; Frederick Van Lente<sup>3</sup>; David J. Anderson<sup>1</sup>; <sup>1</sup>Chemistry department, Cleveland State University, Cleveland, OH; <sup>2</sup>Frantz Biomarkers, Mentor, OH; <sup>3</sup>Clinical pathology, Cleveland Clinic Foundation, Cleveland, OH
- MP 222 **Determination of Thiopurine Methyltransferase Activity in Red Blood Cells (RBC) by Tandem Mass Spectrometry;** Coleman T. Turgeon; Jean M. Lacey; Mark J. Magera; Chuck A. Kroll; Dietrich Matern; Richard M. Weinsilbourn; John F. O'Brien; *Mayo Clinic College of Medicine, Rochester, MN*
- MP 223 **Mass Spectrometric Analysis of Hepcidin in Urine and Serum;** John M. Halket; Anna M. Przyborowska; Sukhinder Bansal; *King's College London, London, UK*
- MP 224 **A Validated Bloodspot Assay for Screening of Barth Syndrome using HPLC-Tandem Mass Spectrometry;** Willem Kulik; Henk van Lenthe; Femke Stet; Riekelt Houtkooper; Frédéric Vaz; *Acedemic Medical Center, University of Amsterdam, Amsterdam, Netherlands*
- MP 225 **An Expert-Based System Approach for the Identification of Single Point Human Hemoglobin Variants from Mass Spectrometric Data;** Charlotte Scarff<sup>1</sup>; Konstantinos Thalassinos<sup>1</sup>; Georgios Efstathiou<sup>1</sup>; Jonathan P. Williams<sup>1</sup>; Brian N. Green<sup>2</sup>; James H. Scrivens<sup>1</sup>; <sup>1</sup>University of Warwick, Coventry, United Kingdom; <sup>2</sup>Waters MS Technologies Centre, Micromass UK Ltd, Manchester, UK
- MP 226 **ESI-MS/MS Library of 1250 Drugs: Database for Drug Identification with Triple-Quadrupole-MS and QTrap Instruments;** Sebastian Dresen<sup>1</sup>; André Schreiber<sup>2</sup>; Juergen Kempf<sup>1</sup>; Wolfgang Weinmann<sup>1</sup>; <sup>1</sup>Institute of Forensic Medicine, Freiburg, Germany; <sup>2</sup>Applied Biosystems, Concord, Canada
- MP 227 **Investigation of 3A4 CYP Inhibition Under Various Assay Conditions: Different Methods, Different Results, Different Conclusions?;** Kheng B. Lim; Joshua Pengson; Marianne T. Quintos; Rongda Xu; Mark S. Hixon; Daniel B. Kassel; *Takeda San Diego, Inc., San Diego, CA*
- MP 228 **New Strategy for Insulin and Insulin Analogs Quantification - MRM Detection for Insulin B Chain;** Karin E. Pickl<sup>1</sup>; Christoph Magnes<sup>1</sup>; Thomas R. Pieber<sup>2</sup>; Frank M. Sinner<sup>1</sup>; <sup>1</sup>Joanneum Research, Inst. of Med. Technologies & HM, Graz, Austria; <sup>2</sup>Dep. of Int. Med., Medical University Graz, Graz, Austria
- MP 229 **Quantification of Creatinine in a Human Serum Standard Reference Material (SRM 967) by GC/MS and LC/MS;** Nathan G. Dodder; Susan Tai; Lorna T. Sniegoski; Michael J. Welch; *National Institute of Standards and Technology, Gaithersburg, MD*
- MP 230 **From Blood to Breath: the Detection of THC in Exhaled Breath by Adsorbent Tube LC-MS/MS;** Frank A. Kero; Timothy E. Morey; W. Brit Smith; Matthew M. Booth; Bruce A. Goldberger; Richard J. Melker; Richard A. Yost; Donn M. Dennis; *University of Florida, Gainesville, FL*
- MP 231 **A General Unknown Screening Method for Drugs and Toxic Compounds in Urine Using Liquid Chromatography – Mass Spectrometry;** Taha Rezai;

POSTER SPACE

- Kate Torchilin; Marta Kozak; *Thermo Fisher Scientific, San Jose, CA*
- MP 232 **Method for the Quantitation of Alloisoleucine by Liquid Chromatography-Tandem Mass Spectrometry;** Karen Kramer<sup>1</sup>; Devin Olgesbee<sup>1</sup>; Jean Lacey<sup>1</sup>; Bruno Casetta<sup>2</sup>; Kevin Strauss<sup>3</sup>; Silvia Tortorelli<sup>1</sup>; Piero Rinaldo<sup>1</sup>; Dietrich Matern<sup>1</sup>; <sup>1</sup>Mayo Clinic College of Medicine, Rochester, MN; <sup>2</sup>Applied Biosystems, Monza, Italy; <sup>3</sup>Clinic for Special Children, Strasburg, PA

DRUG METABOLISM: PHARMACOKINETICS  
233 - 243

- MP 233 **Proteomics of Minute Amounts of Tissue Sample in Aquatic Species: Application to Development of Non-mammalian Screening Assays for Endocrine Disrupters;** Bruce Witthuhn<sup>1</sup>; LeeAnn Higgins<sup>1</sup>; Lorraine B Anderson<sup>1</sup>; todd Markowski<sup>1</sup>; Kara R Thoenke<sup>2</sup>; Michael M Hornung<sup>2</sup>; Joseph E Tietge<sup>2</sup>; Sigmund J Degitz<sup>2</sup>; Joseph J Korte<sup>2</sup>; Jose Serrano<sup>2</sup>; <sup>1</sup>University of Minnesota, St Paul, MN; <sup>2</sup>USEPA, ORD/NHEERL/MED, Duluth, MN
- MP 234 **Large-Volume Injection GC-MS Support to Assess the Kinetics of Sub-Lethal Inhalation Exposures of Sarin in Guinea Pigs;** Jeffrey M. McGuire<sup>1</sup>; Christopher E. Whalley<sup>1</sup>; Ronald A. Evans<sup>1</sup>; Julie A. Renner<sup>2</sup>; Allison L. Totura<sup>2</sup>; Edward M. Jakubowski<sup>1</sup>; Sandra A. Thomson<sup>1</sup>; <sup>1</sup>US Army ECBC, APG, MD; <sup>2</sup>SAIC, APG, MD
- MP 235 **Interesting Selectivity-shifting for Chiral Metabolism of FK778 to M3 in Rats: *in vivo* and *in vitro* Experiments With LC-MS/MS Detection;** Yu-Luan Chen<sup>1</sup>; Shahzad Akhtar<sup>1</sup>; Masakazu Kobayashi<sup>2</sup>; <sup>1</sup>Astellas Pharma US, Inc., Evanston, IL; <sup>2</sup>Astellas Research Institute of America, Evanston, IL
- MP 236 ***In-vitro* Metabolism of Bioactive Compounds Isolated from Chinese Herbal Medicine;** Leah Swanson<sup>1</sup>; Yan Ling Zhang<sup>1</sup>; Isaac Cohen<sup>1</sup>; Uwe Christians<sup>2</sup>; Rene Kupfer<sup>1</sup>; <sup>1</sup>Bionovo, Inc., Aurora, CO; <sup>2</sup>UCHSC, Dept. of Anesthesiology, Denver, CO
- MP 237 **Simultaneous estimation of Trandolapril, Trandolaprilat, Verapamil and Norverapamil in Human Plasma by Ultra Performance Liquid Chromatography and Tandem Mass Spectrometry;** Sandeep Sharma; *Lambda Therapeutic Research Ltd., Ahmedabad, India*
- MP 238 ***In Vitro* Metabolism of L-768242, an Aminoalkylindole CB2 Receptor Agonist;** Qiang Zhang; Peng Ma; Guangdi Wang; *Xavier University of Louisiana, New Orleans, LA*
- MP 239 **Analysis of the Relationship between Gene Regulation and Gliotoxin Production in *Aspergillus Fumigatus*;** Kwami Boateng<sup>1</sup>; Josee Chabot<sup>1</sup>; Leonid Kriazhev<sup>2</sup>; Marcos DiFalco<sup>2</sup>; Benoit Houle<sup>2</sup>; David Blank<sup>4</sup>; Don Sheppard<sup>1</sup>; Bernard F Gibbs<sup>3</sup>; <sup>1</sup>Dept. of Microbiology and Immunology, McGill U, Montreal, Canada; <sup>2</sup>Genome Quebec, McGill University, Montreal, Canada; <sup>3</sup>Sheldon Biotechnology Center, McGill University, Montreal, Canada; <sup>4</sup>Royal Victoria Hospital, MUHC, Montreal, Canada
- MP 240 **Monitoring Gamma-Aminobutyric Acid (GABA) in Rat Brain Extracellular Fluid: Analysis of Nucleus Accumbens Microdialysates with LCMSMS;** Yongxin Zhu; Candice B Kissinger; Candace Rohde; Simon D Katner; Robyn Guinn; *BASi, West Lafayette, IN*
- MP 241

MONDAY POSTERS

POSTER SPACE

- MP 242
- MP 243 **Microdosing Study in Rat Plasma using High Sensitive LC-ESI/MS/MS technique;** Daniel T. Lebre<sup>1</sup>; Mauro Aiello<sup>1</sup>; Gary Impey<sup>1</sup>; Fabio Bonelli<sup>2</sup>; <sup>1</sup>*Applied Biosystems/MDS Sciex, Concord, Canada*; <sup>2</sup>*Merck & Co., Rome, Italy*

**DRUGS & THEIR METABOLITES: PROFILING  
244 - 254**

- MP 244 **Evaluation of the Use of U-HPLC and Accurate Mass LC-MS<sup>n</sup> for the Determination of Metabolites in Species Comparison Studies;** Richard Clayton; Phillippa Curtis-Jackson; David Wilkinson; Fiona Henderson; *Covance Laboratories, Harrogate, United Kingdom*
- MP 245 **Rapid Detection and Characterization of Metabolites of Potential Histone Deacetylase Inhibitor MG8911 using a Multiple Information Dependent Acquisition Strategy;** Jingzhong (Tim) Guo; James J. Wang; *MethylGene Inc., Montreal, Canada*
- MP 246 **Re-interrogation of Verapamil Metabolites from Bile using Time-Based Data-Dependent Mass Lists and Mass Defect Filter with the LTQ Orbitrap;** Laurance Lee<sup>1</sup>; Theresa McLaughlin<sup>1</sup>; Yan Chen<sup>1</sup>; Ji Ma<sup>2</sup>; Robert Cho<sup>2</sup>; Hoa Le<sup>2</sup>; Shichang Miao<sup>2</sup>; <sup>1</sup>*Thermo Fisher Scientific, Inc., San Jose, CA*; <sup>2</sup>*Amgen, Inc., South San Francisco, CA*
- MP 247 **Novel Approach to Performing Metabolite Identification in Drug Metabolism Using LC-ARC-MS;** Ala F. Nassar<sup>1</sup>; Dian Lee<sup>2</sup>; Daniel Stine<sup>2</sup>; Kevin Hsu<sup>2</sup>; <sup>1</sup>*Vion Pharmaceutical, Inc, Milford, CT*; <sup>2</sup>*AIM Research Company, Newark, DE*
- MP 248 **High Throughput and Sensitivity in Metabolite Profiling of Clozapine using Predictive Multiple Reaction Monitoring and Intelligent Method Building Software;** Hesham Ghobarah<sup>1</sup>; Sophie Pan<sup>2</sup>; Yingbo Yang<sup>2</sup>; Douglas J. Turk<sup>2</sup>; Elliott Jones<sup>1</sup>; <sup>1</sup>*Applied Biosystems / MDS SCIEX, Foster City, CA*; <sup>2</sup>*NoAb BioDiscoveries, Inc., Mississauga, Ontario, Canada*
- MP 249 **New Bioanalytical Platform for the Assessment of ADME/PK Characterization in the Early Drug Development - Ultrasensitive Accelerator Mass Spectrometry (AMS);** Qi Song; Ugo Zoppi; James Crye; Ali Arjomand; *Accium BioSciences, Inc., Seattle, WA*
- MP 250 **Metabolite Identification by Data-Dependent High-Resolution Accurate Mass Analysis using LC/Orbitrap with Sub-Ppm Mass Accuracy Under Internal Mass Calibration Mode;** Heng-Keang Lim; *DMPK, Johnson and Johnson PRD, Raritan, NJ*
- MP 251 **An Information Rich Approach for In Vitro Cross Species Metabolic Profiling Comparison with the use of QToF and MSE;** Donald C Laudicina<sup>1</sup>; Jose M Castro-Perez<sup>2</sup>; Liping Jin<sup>1</sup>; Kayvon Jalali<sup>1</sup>; <sup>1</sup>*Neurocrine Biosciences, San Diego, CA*; <sup>2</sup>*Waters Corporation, Milford, MA*
- MP 252 **Higher Efficient Metabolite Identification by Retention Time Specific Mass Rejection of Matrix Ions;** Shigeru Sakamoto; Makoto Takahata; Mihoko Yamaguchi; *Thermo Fisher Scientific, Yokohama, Japan*
- MP 253 **An Interweaved Multi-Algorithm Approach for Computer-Assisted Identification of Drug Metabolites;** Edgar Naegele; *Agilent Technologies, Waldbronn, Germany*
- MP 254 **In Vitro Assessment of Phase I and II Butoconazole Metabolites from Multiple Species Using a Novel 2D**

POSTER SPACE

- Image Comparison Method;** Sheng Liu<sup>1</sup>; Howard C. Haspel<sup>1</sup>; Sarah Mitchell<sup>1</sup>; Xin Zhang<sup>1</sup>; Hongjun Liu<sup>2</sup>; Ju Yang<sup>2</sup>; Adrian Sheldon<sup>1</sup>; <sup>1</sup>*Charles River Laboratories Preclinical Services, Worcester, MA*; <sup>2</sup>*KV Pharmaceuticals, St. Louis, MO*

**DRUGS: QUANTITATION  
255 - 267**

- MP 255 **Single Analysis of Gestodene and Ethinyl Estradiol in Human Serum using LLE extraction and LC/MS/MS Detection;** Jean Couture; Rejean Dumas; Brigitte Pellerin; François Vallée; *Anapharm Inc., Québec, CANADA*
- MP 256 **Challenges of Modifying an Existing Quantitative Assay: Adding a New Metabolite;** Patrick Bennett<sup>1</sup>; Min Meng<sup>1</sup>; Heather Gross<sup>1</sup>; Ryan Adler<sup>1</sup>; Haihong Shi<sup>2</sup>; Barbara Duncan<sup>2</sup>; Frederick McCush<sup>2</sup>; <sup>1</sup>*Tandem Labs, Salt Lake City, UT*; <sup>2</sup>*Pfizer Inc, PGRD Groton Laboratories, Groton, CT*
- MP 257 **Quantitation of Small Molecules in Human Plasma using MALDI-SRM: Determination of Saquinavir;** Michel Wagner; Emmanuel Varesio; Gérard Hopfgartner; *LSMS, School of Pharmacy, Geneva, Switzerland*
- MP 258 **Developing a Method to Protect the Integrity of Racing using Targeted SRM: Detection and Quantification of rhEPO/DPO in Horse Plasma;** Scott Peterman<sup>1</sup>; Cornelius Uboh<sup>2</sup>; Fuyu Guan<sup>2</sup>; Lawrence Soma<sup>3</sup>; <sup>1</sup>*Thermo Fisher Scientific, Somerset, NJ*; <sup>2</sup>*Pennsylvania Equine Toxicology and Research Center, West Chester, PA*; <sup>3</sup>*University of Pennsylvania, Kennett Square, PA*
- MP 259 **A High Throughput LC-MS/MS Method for Quantitation of a Novel Small Molecule NGF Modulator in Multiple Matrices;** Miles Webb; Garnet McRae; Xi-Lin Cui; Rahul Vohra; *PainCeptor Pharma Corp, Ottawa, Canada*
- MP 260 **Increasing the Selectivity of Clenbuterol Detection in Urine Samples by using MS<sup>3</sup> on a Hybrid Quadrupole-Linear Ion Trap;** Tanya Gamble; J.C. YVES Le Blanc; *MDS Sciex, Concord, Canada*
- MP 261 **Experiences with Ultra Performance Liquid Chromatography in Quantitative Mass Spectrometry;** Mike Larson; Jacob Maguigad; Xiangyu Jiang; Eric Oliver; Weston Brown; Austin Li; *Covance, Madison, WI*
- MP 262 **Challenges and Solutions in Bioanalytical Method Development for Quantitation of Released Vinorelbine from Liposomal Encapsulated Vinorelbine in Human Plasma K3EDTA;** Hassan Rashidzadeh<sup>1</sup>; John Bailey<sup>1</sup>; John Mc Farlane<sup>1</sup>; Socheata Tauch<sup>1</sup>; Greg Berk<sup>2</sup>; Christopher Salentine<sup>2</sup>; <sup>1</sup>*Charles River Laboratories, Worcester, MA*; <sup>2</sup>*Hana Biosciences, South San Francisco, CA*
- MP 263 **“On Column” Derivatization for the Quantification of Ibandronate and Other Bisphosphonates in Human Serum by LC-MS/MS;** Yousef Basir; Veni Lapko; Alan Dzerk; Lee Zhu; Kirk Newland; *MDS Pharma Services, Lincoln, NE*
- MP 264 **Improving Efficiencies in ADME Screening Utilising UPLC and Tandem Mass Spectrometry: Implications for MDRI-MDCK Permeability Screening;** David Turner<sup>2</sup>; Boris Pufong<sup>2</sup>; Helen Gill<sup>2</sup>; Sally Lee<sup>2</sup>; Clive Dilworth<sup>2</sup>; Edward Sprake<sup>1</sup>; <sup>1</sup>*Waters Corporation, Manchester, United Kingdom*; <sup>2</sup>*Cyprotex, Macclesfield, UK*

MONDAY POSTERS

POSTER SPACE

- MP 265 **Quantitative Determination of Nestorone and Ethinyl Estradiol in Human Serum Using GC/NCI/MS/MS;** Agnita Rajasekaran<sup>1</sup>; Clark V. Williard<sup>1</sup>; Narendra Kumar<sup>2</sup>; Regine Sitruk-Ware<sup>2</sup>; Paul Taylor<sup>1</sup>; <sup>1</sup>*Taylor Technology, Princeton, NJ*; <sup>2</sup>*Population Council, New York, NY*
- MP 266 **An Inter-Laboratory Comparison of Three LC/MS Bioanalytical Methods for the Quantitation of ARQ-501 in Human Plasma;** Karen R Bresciano; Terence Hall; Ronald Savage, PhD; *ArQule, Inc, Woburn, MA*
- MP 267 **Correlating Extended Dynamic Range with Nanospray Flow Rate Measurement for Optimal ESI-MS Performance;** Carla J. Marshall-Waggett; Adam W. Perala; Gary A. Valaskovic; *New Objective, Woburn, MA*

**METABOLITES (ENDOGENOUS): QUANTITATIVE  
268 - 280**

- MP 268 **Simultaneous and Direct Analysis of Prostaglandins and Leukotrienes in Serum Samples Using High Sensitivity Nanoflow LC/MS/MS;** Yunan Miao<sup>1</sup>; Junji Watanabe<sup>2</sup>; Ajay Narasimha<sup>2</sup>; James Lin<sup>2</sup>; Srinivasa Reddy<sup>2</sup>; Terry Lee<sup>1</sup>; <sup>1</sup>*Beckman Research Institute of the City of Hope, Duarte, CA*; <sup>2</sup>*Geffen School of Medicine, UCLA, Los Angeles, CA*
- MP 269 **Quantification of Lipid Fatty Acids in Human Blood Samples by Gas Chromatography;** Rui Tan; Chris Connor; Czarina Cortez; Yali Su; Chris Heward; *Kronos Science Laboratory, Phoenix, AZ*
- MP 270 **Quantitative Profiling of the Endocannabinoid Metabolome by LC-APCI-MS;** John Williams<sup>1</sup>; JodiAnne Wood<sup>1</sup>; Lakshmi pathi Pandarinathan<sup>1</sup>; David Karanian<sup>2</sup>; Benjamin Bahr<sup>2</sup>; Paul Vouros<sup>1</sup>; Alexandros Makriyannis<sup>1</sup>; <sup>1</sup>*Northeastern University, Boston, MA*; <sup>2</sup>*University of Connecticut, Storrs, CT*
- MP 271 **Quantitative Analysis using LC-MS-MS of Psychosine in Mouse Brain Tissue;** Hongmei Cao<sup>1</sup>; Francesca Galbiati<sup>2</sup>; Maria Givogni<sup>2</sup>; Richard B. van Breemen<sup>\*1</sup>; Ernesto R. Bongarzone<sup>2\*2</sup>; <sup>1</sup>*Univ. of Illinois at Chicago College of Pharmacy, Chicago, IL*; <sup>2</sup>*Univ. of Illinois at Chicago College of Medicine, Chicago, IL*
- MP 272 **Electrode Extraction Combined with Liquid Chromatography-Mass Spectrometry for Creatinine and Parathion Analysis;** Tzung-Jie Yang; Maw-rong Lee; *National Chung-Hsing University, Taichung, Taiwan*
- MP 273 **Quantitative Analysis of Testosterone in Human Serum using Liquid Chromatography-Tandem Mass Spectrometry;** Ang Liu; Jian Guo; Yan Luo; Richard B. van Breemen; *University of Illinois College of Pharmacy, Chicago, IL*
- MP 274 **Detection and Quantitation of Norepinephrine in Mouse Plasma by SPE-LC/MS/MS;** Junling Gao; Li-kang Zhang; Larry Heimark; Birendra Pramanik; *Schering-Plough Research Institute, Kenilworth, NJ*
- MP 275 **Highly Selective LC-MS/MS Analysis of Eicosanoid Biomarkers;** Veniamin Lapko; Yousef Basir; Kirk Newland; Rick Olsen; Toby Julian; Ginny James; Chad Briscoe; *MDS Pharma Services, Lincoln, NE*
- MP 276 **Quantitation of a Derivatized Synthetic Estrogen Extracted From Rat Serum Using Gas Chromatography Electron Capture Negative Ionization Tandem Mass Spectrometry(GC/ECNI/MS/MS);** Robert J. White; Susan K. Ohorodnik Ph.D; Nayan Patel; Paul A. Taylor Ph.D; *Taylor Technology, Inc, Princeton, NJ*

POSTER SPACE

- MP 277 **The Development, Validation and Application of Multiplexed LC-MS/MS Based Biomarker and PK/PD assays: Potential Efficiency Gains;** Erick Kindt; Nalini Sadagopan; Wenlin Li; Jenny Zhang; Gabriella Szekely-Klepser; *Pfizer Global Research and Development, Ann Arbor, MI*
- MP 278 **Development of a Fetal Alcohol Syndrome Biomarker by Mass Spectrometry;** Nilufer Solak; Alyson M. Leigh; Chrys Wesdemiotis; *University of Akron, Akron, OH*
- MP 279 **Determination of Cellular Glutathione/Glutathione Disulfide Ratios by Stable-Isotope-Dilution LC-MRM/MS;** Peijuan Zhu; Tomoyuki Oe; Ian A. Blair; *Univ of Pennsylvania, Philadelphia, PA*
- MP 280 **A Comprehensive Investigation of LC/MS/MS Methods of Detection for GSH Conjugation of Small Molecules on a Hybrid Linear-Ion-Trap-Triple/Quadrupole Mass Spectrometer;** Claire J. Bramwell-German<sup>1</sup>; Robert Cho<sup>2</sup>; Ji Ma<sup>2</sup>; Shichang Miao<sup>2</sup>; Elliott Jones<sup>1</sup>; <sup>1</sup>*Applied Biosystems, Foster City, CA*; <sup>2</sup>*Amgen, South San Francisco, CA*

**METABOLOMICS: APPLICATIONS  
281 - 300**

- MP 281 **Integrated Metabolomic and Fluxomic Analysis of Cellular Response to Viral Infection;** Joshua Rabinowitz; Joshua Munger; Bryson Bennett; Sunil Bajad; Hilary Collier; Thomas Shenk; *Princeton University, Princeton, NJ*
- MP 282 **Lipidomics in Sinorhizobium Meliloti as a Tool in Functional Genomics;** Libia Saborido Basconcello; Brian E. McCarry; *Department of Chemistry, McMaster University, Hamilton, Canada*
- MP 283 **Microdialysis Study of Extracellular Levels of Dopamine and Salsolinol in the Brain of Alcohol-Preferring Rats;** Jason A. Starkey<sup>1</sup>; Tatiana Rojkovicova<sup>1</sup>; Yehia Mechref<sup>2</sup>; Guangxiang Wu<sup>2</sup>; Eric A. Engleman<sup>3</sup>; William J. McBride<sup>3</sup>; Milos V. Novotny<sup>2</sup>; <sup>1</sup>*Indiana University, Bloomington, IN 47405*; <sup>2</sup>*METACyt Biochemical Analysis Center, Bloomington, IN*; <sup>3</sup>*Indiana University School of Medicine, Indianapolis, IN*
- MP 284 **Screening Cytotoxicity of Potential Cancer Therapeutic Agents using Metabolite Profiling;** Ruth N. Udey; Chrysoula Vassileiou; Babak Borhan; A. Daniel Jones; *Michigan State University, East Lansing, MI*
- MP 285 **Metabolic Profiling and Fingerprinting of Beverages using LC-MS and NMR;** Marko Godejohann<sup>1</sup>; Eberhard Humpfer<sup>1</sup>; Hartmut Schaefer<sup>1</sup>; Peter Rinke<sup>2</sup>; Gabriela Zurek<sup>3</sup>; Carsten Baessmann<sup>3</sup>; Manfred Spraul<sup>1</sup>; <sup>1</sup>*Bruker BioSpin GmbH, Rheinstetten, Germany*; <sup>2</sup>*SGF International, Niederlorn, Germany*; <sup>3</sup>*Bruker Daltonik GmbH, Bremen, Germany*
- MP 286 **Analysis of Mevalonate Pathway Metabolites and an ATP Analogue App1 in Cultured Cancer Cells using Liquid Chromatography-Electrospray Ionization Mass Spectrometry;** Marjo Annika Jauhainen<sup>1</sup>; Hannu Mönkkönen<sup>2</sup>; Johanna Kuokkanen<sup>1</sup>; Jukka Mönkkönen<sup>1</sup>; Seppo Auriola<sup>1</sup>; <sup>1</sup>*University of Kuopio, Kuopio, Finland*; <sup>2</sup>*University of Sheffield, Sheffield, United Kingdom*
- MP 287 **Applications of LC-MS and Metabolomics as a Diagnostic Tool for Hepatic Diseases;** Stéphanie Richer<sup>1</sup>; Azucena Castro<sup>1</sup>; Maria Luz Martinez-Chantar<sup>2</sup>; Jose Maria Mato<sup>2</sup>; <sup>1</sup>*OWL Genomics, Derio, SPAIN*; <sup>2</sup>*CIC BioGUNE, Derio, Spain*

MONDAY POSTERS

POSTER SPACE

- MP 288 **Metabolomic Analysis of Serum Samples from Chemical-Induced Hepatotoxicity in Rats using UPLC-TOF/MS;** Toshihiro Oguma; Eri Watanabe; Osamu Okazaki; Kenichi Sudo; *Daiichi Pharmaceutical Co. LTD., Tokyo, Japan*
- MP 289 **Metabolic Profiling of Serum from Patients Suffering from Schizophrenia and Affective Disorder;** Emanuel Schwarz<sup>1</sup>; Sven Nahnsen<sup>1</sup>; F. Markus Leweke<sup>2</sup>; Dagmar Koethe<sup>2</sup>; Sonja Gross<sup>2</sup>; Hilary Major<sup>3</sup>; Sabine Bahn<sup>1</sup>; <sup>1</sup>*University of Cambridge, Cambridge, United Kingdom*; <sup>2</sup>*University of Cologne, Cologne, Germany*; <sup>3</sup>*Waters Corporation, Atlas Park, Manchester, United Kingdom*
- MP 290
- MP 291 **Metabolomics Analysis of a Population of Human Plasma to Determine Compounds Differentiated as a Result of Gender, Age and Race;** Anne Evans; Eric Milgram; Don Harvan; Matt Mitchell; *Metabolon, Inc., Durham, NC*
- MP 292 **A Fully Automated On-Line Derivatization- Solid Phase Extraction-LC-MS/MS Method Determining Glutathione and Cysteine in Rat Brain Striatum *in vivo*;** Ge Zu; Li Zhang; Monika Wrona; Glenn Dryhurst; *University of Oklahoma, Norman, OK*
- MP 293 **Measurement of Endogenous Metabolites in Single Islet Extract by Capillary Liquid Chromatography – Nanoelectrospray Ionization Mass Spectrometry (cLC-nESI-MS);** Qihui Ni; Robert T Kennedy; *University of Michigan, Ann Arbor, MI*
- MP 294 **Metabolomics at the Single Cell Level;** Andrea Amantonico<sup>1</sup>; Joo Yeon Oh<sup>1</sup>; Jens Sobek<sup>2</sup>; Renato Zenobi<sup>1</sup>; <sup>1</sup>*ETH Zurich, Zurich, Switzerland*; <sup>2</sup>*Functional Genomics Center Zurich, Zurich, Switzerland*
- MP 295 **A Metabolomics Study of Intra-Erythrocytic *Plasmodium falciparum* Ring and Trophozoite Developmental Stages;** Sunil Bajad<sup>1</sup>; Joel Shuman<sup>1</sup>; John M. Pisciotta<sup>2</sup>; Wei Sha<sup>1</sup>; Dominique Rasoloson<sup>2</sup>; Lirong Shi<sup>2</sup>; Oluwatosin Ginsanrin<sup>2</sup>; David Sullivan<sup>2</sup>; Vladimir Shulaev<sup>1</sup>; <sup>1</sup>*Virginia Bioinformatics Institute, Blacksburg, VA*; <sup>2</sup>*John Hopkins Bloomberg School of Public Health, Baltimore, MD*
- MP 296 **Investigation of Uremic Biomarkers by Mass Spectrometry;** Ruth Godfrey; Gareth Brenton; Russ Newton; Ed Dudley; Peter Willshaw; *Swansea University, Swansea, United Kingdom*
- MP 297 **LCEC/LCMS Studies of Protein and Oxidized Neurotransmitter Interactions;** Erika N. Ebbel<sup>1</sup>; Wayne R. Matson<sup>2</sup>; Mikhail B. Bogdanov<sup>2</sup>; Catherine E. Costello<sup>1</sup>; <sup>1</sup>*Boston University School of Medicine, Boston, MA*; <sup>2</sup>*Edith Nourse Memorial Veterans Hospital, Bedford, MA*
- MP 298 **Metabolomic Analysis of Bile Acids as Biomarkers of Hepatobiliary Toxicity;** Yutai Li; Qiuwei Xu; William H Schaefer; *Merck, West Point, PA*
- MP 299 **Combining GC/GC/MS and NMR Spectroscopy for the Detection of Colon Cancer;** Zhengzheng Pan; Haiwei Gu; Xiaodong Huang; Gregory H.J. Park; Fred Regnier; Daniel Raftery; *Purdue University, West Lafayette, IN*
- MP 300

POSTER SPACE

- Krieger<sup>2</sup>; <sup>1</sup>*Keystone Analytical, Inc, North Wales, PA*; <sup>2</sup>*Johnson & Johnson Pharmaceuticals, Spring House, PA*
- MP 302 **Identifying Lipid Changes in Nerve Tissue as a Result of Dichloroacetate Treatment using IP-MALDI Coupled to a Linear Ion Trap;** Rachelle R. Landgraf; Timothy J. Garrett; Peter W. Stacpool; Richard A. Yost; *University of Florida, Gainesville, FL*
- MP 303 **Application of FAIMS to Discovery Bioanalysis of New Chemical Entities (NCEs);** Sarah M Osgood; Lisa M Buchholz; Lucinda H Cohen; *Pfizer Global Research and Development, Ann Arbor, MI*
- MP 304 **LC-MS/MS Determination of Darunavir in Human Plasma;** Brian J. Engel; Gary W. Overdorf; Husantha G. Jayaratna; Mark Gehrke; *BASi, West Lafayette, IN*
- MP 305 **Liquid Chromatography-Mass Spectrometry for Determination of F2-isoprostanes in Human Body Tissue and Fluid;** Chung-Yu Chen<sup>1</sup>; Maw-rong Lee<sup>1</sup>; Nan-Shih Liao<sup>2</sup>; <sup>1</sup>*National Chung-Hsing University, Taichung, Taiwan*; <sup>2</sup>*Academai Sinica, Taipei, Taiwan*
- MP 306 **On Plate Analyte Extraction and Analysis of Small Molecules From Complex Biological Media Using Matrix-free, Nanostructured Targets;** Hugh Daniels<sup>1</sup>; Sergei Dikler<sup>2</sup>; Veeral Hardev<sup>1</sup>; Catherine Stacey<sup>2</sup>; <sup>1</sup>*Nanosys Inc, Palo Alto, CA*; <sup>2</sup>*Bruker Daltonics Inc., Billerica, MA*
- MP 307 **A Novel LC/MS/MS Method for the Quantitation of Total Calicheamicin Derived from Monoclonal Antibody-Calicheamicin Conjugates in Animal Serum;** Richard Xue; Jennifer Davis; Zhiping Jiang; Peter Amorusi; Allena J. Ji; *Wyeth, Pearl River, NY*
- MP 308 **Systematic and Expanded Investigation of Low Internal Standard Response in Human Plasma Study Samples by LC-MS/MS;** Alain Lemoyne; Virginie Leclaire; Troy Bradley; Fabio Garofolo; *Algorithme Pharma Inc., Laval (Montreal), QC, Canada*
- MP 309 **Analysis of Volatile Compounds in Human Saliva by a Novel Sorptive Extraction Method and Gas Chromatography-Mass Spectrometry;** Helena A. Soini<sup>1</sup>; Iveta Klouckova<sup>1</sup>; Kevin E. Bruce<sup>1</sup>; Donald Wiesler<sup>1</sup>; Elisabeth Oberzaucher<sup>2</sup>; Karl Grammer<sup>2</sup>; Sarah J. Dixon<sup>3</sup>; Yun Xu<sup>3</sup>; Richard G. Brereton<sup>3</sup>; Dustin J. Penn<sup>4</sup>; Milos V. Novotny<sup>1</sup>; <sup>1</sup>*Indiana University, Bloomington, IN*; <sup>2</sup>*Ludwig Boltzmann Institute for Urban Ethology, Vienna, Austria*; <sup>3</sup>*Centre for Chemometrics, University of Bristol, Bristol, UK*; <sup>4</sup>*Konrad Lorenz Institute for Ethology, Vienna, Austria*
- MP 310 **Development and Validation of a LC/MS/MS Assay for the Intracellular Quantification of Tenofovir Diphosphate in Peripheral Blood Mononuclear Cells;** Shawn Bartley; John A Begley; T. Nicole Clark; *Gilead Sciences Inc., Durham, NC*
- MP 311 **Focus on Method Selectivity: a Means to Reduce Matrix Effects and Increase Throughput and Ruggedness in Bioanalytical LC/MS/MS Applications;** Vladimir Capka; Spencer J. Carter; Stephen Viccarone; Nghia H. Nguyen; Scott S. Merkle; *Tandem Labs, Salt Lake City, UT*
- MP 312 **Quantitation of Methylmalonic Acid in Plasma using Hydrophilic Interaction Liquid Chromatography on a Zwitterionic Stationary Phase and Negative Electrospray MS;** Patrik Appelblad<sup>1</sup>; Jorn Schneede<sup>2</sup>; Hans-Ake Lakso<sup>2</sup>; <sup>1</sup>*SeQuant AB, Umeå, Sweden*; <sup>2</sup>*GKM/Laboratory medicine, University hospital, Umeå, Sweden*

SMALL MOLECULES IN BIOLOGICAL MATRIX  
301 - 314

- MP 301 **Development and Validation of a High-Performance Liquid Chromatography Tandem Mass Spectrometry Assay for Urea in Biological Fluids;** Michael Xinzhong Zhang<sup>1</sup>; Allan Xu<sup>1</sup>; Daksha Desai-



MONDAY POSTERS

POSTER SPACE

- MP 313 **A Fast LC-MS Method for Quantification of Delta-9-THC and 11-Hydroxy-Delta-9-THC in Human Plasma;** Rachel Sun; Husantha Jayaratna; Michael Pugh; Gary Overdorf; Mark Gehrke; *Bioanalytical Systems, Inc., West Lafayette, IN*
- MP 314 **Determination of Chemically Reduced Pyrrolbenzodiazepine SJG-136 in Human Plasma by HPLC-MS/MS: Application to an Anticancer Phase I Pharmacokinetics Study;** M. Wade Calcutt<sup>1</sup>; Woon Lee<sup>2</sup>; Igor Puzanov<sup>2</sup>; Mace L. Rothenberg<sup>2</sup>; David L. Hachey<sup>1</sup>; <sup>1</sup>*Mass Spectrometry Res. Ctr, Vanderbilt Univ., Nashville, TN;* <sup>2</sup>*Vanderbilt-Ingram Cancer Ctr., Vanderbilt Univ., Nashville, TN*

MICROBIAL ANALYSIS 1  
315 - 329

- MP 315 **LC/MS Profiling of Intact Proteins from Bacterial Extracts as a Strategy for Forensic Tracing;** Rebecca L Bell; Denis Andrzejewski; Tracie L Williams; John H Callahan; Steven Musser; *US FDA, College Park, MD*
- MP 316 **LC-MS Based Detection of Molecular Genetic Modifications in Bacteria;** Patricia K. Lankford; Tse-Yuan S. Lu; Bruce A. Tomkins; W. Hayes McDonald; *Oak Ridge National Laboratory, Oak Ridge, TN*
- MP 317 **Online Bacterial Identification Using MALDI-TOF-MS Fingerprint Methodology;** Leslie Harden; *USDA/WRRC, Albany, CA*
- MP 318 **MALDI-TOF MS Based Intact Cells Microorganism Profiling in Tracking the Sources of Product Contamination at the Industrial Settings;** Oksana Gvozdyak; *Bruker Daltonics Inc., Billerica, MA*
- MP 319 **Developing a Method for Detecting and Differentiating Shiga Toxin Variants from Pathogenic E. coli Using Mass Spectrometry Approach;** Chenyi Liu; Garrett Westmacott; Joanne McCrea; Walter Demczuk; Jody Berry; Lai-King Ng; Gehua Wang; *National Microbiology Laboratory, Winnipeg, MB, Canada*
- MP 320 **An Integrated Systems Biology Study of Factors Influencing Amorphadiene Production from Metabolically Engineered Escherichia coli;** Christopher J. Petzold; Lance Kizer; Rob Dahl; Wenqing Shui; David Garcia; Jay D. Keasling; *University of California, Berkeley, CA*
- MP 321 **Epitope Mapping of Botulinum Neurotoxin B by Mass Spectrometry and Proteomics;** Hercules Moura; Suzanne R. Kalb; Adrian R. Woolfitt; Jim L. Pirkle; John R. Barr; *Centers for Disease Control & Prevention, Atlanta, GA*
- MP 322 **Biomarkers for Bioweapons: An Automated LC/MS Approach;** Robert A. Everley<sup>2</sup>; Shane A. Wyatt<sup>1</sup>; Tiffany M. Mott<sup>1</sup>; Peter Leopold<sup>3</sup>; Timothy R. Croley<sup>1</sup>; <sup>1</sup>*Commonwealth of Virginia, Richmond, VA;* <sup>2</sup>*Virginia Commonwealth University, Richmond, VA;* <sup>3</sup>*BioAnalyte, Portland, ME*
- MP 323 **MALDI-TOF MS Fingerprinting of Fungal Isolates;** Justin M. Hettick; Brett J. Green; Francoise M. Blachere; Detlef Schmechel; Erica Janotka; Paul D. Siegel; Donald Beezhold; *National Inst. for Occupational Safety and Health, Morgantown, WV*
- MP 324 **MALDI-TOF MS Fingerprint Identification of Microorganisms on the Species and Subspecies Level using Different Bioinformatic Approaches;** Thomas Maier<sup>1</sup>; Oksana Gvozdyak<sup>2</sup>; Vadim M Govorun<sup>3</sup>; Vladimir A Vereshchagin<sup>3</sup>; Elena Il'ina<sup>3</sup>; Stefan Klepel<sup>1</sup>; Uwe Renner<sup>1</sup>; Markus Kostrzewa<sup>1</sup>; <sup>1</sup>*Bruker*

POSTER SPACE

- MP 325 **Rapid Identification of Candida Species and Characterization of C. albicans Strains by MALDI Mass Signatures;** Jiang Qian<sup>1</sup>; Yang Cai<sup>1</sup>; Jim E. Cutler<sup>3</sup>; Richard B. Cole<sup>2</sup>; <sup>1</sup>*The Research Institute for Children, New Orleans, New Orleans, LA;* <sup>2</sup>*University of New Orleans, New Orleans, LA;* <sup>3</sup>*Louisiana State University Health Science Center, New Orleans, LA*
- MP 326 **MassTag PCR – A Multiplex System for Differential Pathogen Detection Using Single Quadrupole MS;** Thomas Briese<sup>1</sup>; Tony Brand<sup>2</sup>; Neil Renwick<sup>1</sup>; Vishal Kapoor<sup>1</sup>; Joseph Villari<sup>1</sup>; Junhui Zhai<sup>1</sup>; Gustavo Palacios<sup>3</sup>; Zhiqiang Liu<sup>1</sup>; Omar Jabado<sup>1</sup>; Doug Postl<sup>2</sup>; Steve Royce<sup>2</sup>; Immaculada Casas<sup>3</sup>; Brunhilde Schweiger<sup>4</sup>; W. Ian Lipkin<sup>1</sup>; <sup>1</sup>*Mailman School of Public Health, Columbia U., New York, NY;* <sup>2</sup>*Agilent Technologies, Raleigh, NC;* <sup>3</sup>*Centro Nacional de Microbiologia, Madrid, Spain;* <sup>4</sup>*Robert Koch-Institute, Berlin, Germany*
- MP 327 **Identification of Foodborne Bacteria by High Energy Collision-Induced Dissociation of Their Protein Biomarkers by MALDI Tandem-Time-of-Flight Mass Spectrometry;** Clifton K. Fagerquist<sup>1</sup>; Katherine E. Williams<sup>2</sup>; Anna H. Bates<sup>1</sup>; <sup>1</sup>*USDA Agricultural Res. Svc., Albany, CA;* <sup>2</sup>*Applied Biosystems, Foster City, California*
- MP 328 **Lactic Acid Bacterial Identification using MALDI-TOFMS and a Standard Library Search Algorithm;** David Evason<sup>1</sup>; H.A. Ghanbour<sup>2</sup>; Alexis Polley<sup>1</sup>; H.A. Foster<sup>2</sup>; <sup>1</sup>*Scientific Analysis Instruments, Manchester, United Kingdom;* <sup>2</sup>*Salford University, Salford, UK*
- MP 329 **Taxonomic Classification of Bacteria Using Mass Spectrometry-Based Proteomics;** Jacek P. Dworzanski<sup>1</sup>; Danielle N. Dickinson<sup>2</sup>; Samir V. Deshpande<sup>3</sup>; Rabih E. Jabbour<sup>1</sup>; Brian A. Eckenrode<sup>4</sup>; Charles H. Wick<sup>5</sup>; Alan W. Zulich<sup>5</sup>; <sup>1</sup>*SAIC, Aberdeen Proving Ground, MD;* <sup>2</sup>*Oak Ridge Institute for Science and Education, Oak Ridge, TN;* <sup>3</sup>*Science and Technology Corporation, Edgewood, MD;* <sup>4</sup>*FBI Counterterrorism and Forensic Research, Quantico, VA;* <sup>5</sup>*U.S. Army Edgewood Chemical Biological Center, Aberdeen Proving Ground, MD*

IMMUNOLOGY  
330 - 341

- MP 330 **CREDEX-MS: Mass Spectrometric Determination of Carbohydrate Recognition Structures in Proteins;** Michael Przybylski<sup>1</sup>; Adrian Moise<sup>1</sup>; Hans-Christian Siebert<sup>2</sup>; Hans-Joachim Gabius<sup>2</sup>; <sup>1</sup>*University of Konstanz, Konstanz, Germany;* <sup>2</sup>*Ludwig-Maximilians-University, Muenchen, Germany*
- MP 331 **Time-Resolved Mass Spectrometry of Macrophage Phagosome Maturation via Isobaric Chemical Tagging;** Wenqing Shui<sup>1</sup>; Christopher Petzold<sup>2</sup>; Leslie Sheu<sup>1</sup>; Jun Liu<sup>3</sup>; Jay Keasling<sup>2</sup>; Carolyn Bertozzi<sup>1</sup>; <sup>1</sup>*Department of Chemistry, UC Berkeley, Berkeley, CA;* <sup>2</sup>*Department of Chemical Engineering, UC Berkeley, Berkeley, CA;* <sup>3</sup>*Bayer HealthCare LLC, Berkeley, CA*
- MP 332 **The HLA-B27 Peptidome and Autoimmunity;** Arie Admon<sup>1</sup>; Lilach Halevi<sup>1</sup>; Eilon Barnea<sup>1</sup>; Ilan Beer<sup>2</sup>; Matthias Mann<sup>3</sup>; <sup>1</sup>*Technion - Israel Institute of Tech, Haifa, ISRAEL;* <sup>2</sup>*IBM Research Laboratory, Haifa, Israel;* <sup>3</sup>*Max Planck Institute for Biochemistry, Martinsried, Germany*

MONDAY POSTERS

POSTER SPACE

- MP 333 **Immune Cell Potentiating Factor (ICPF) profiling via combined Mass Spectrometry**; Charles Matyi; Bart H.J. van den Berg; Kenneth O. Willeford; *Mississippi State University, Mississippi State, MS*
- MP 334 **Proteomic Profiling of Avian Innate Immune Cell Surface Proteins**; Georgios S. Katselis<sup>1</sup>; Lei Zhang<sup>2</sup>; Ronald M. Goto<sup>2</sup>; Roger E. Moore<sup>1</sup>; Marcia M. Miller<sup>2</sup>; Terry D. Lee<sup>1</sup>; <sup>1</sup>*Immunology, Beckman Res. Inst., City of Hope, Duarte, CA*; <sup>2</sup>*Molecular Biology, Beckman Res. Inst., COH, Duarte, CA*
- MP 335 **Mass Spectrometry and Autoimmune Disease: Identification and Analysis of Autoantibodies Reactive with Human Plasma Plasminogen**; Viorel Mocanu; David Bautz; Sofia Lionaki; Jia Jin Yang; Susan Hogan; Julie Hamra; Carol E Parker; Charles J Jennette; Ronald J Falk; Gloria A Preston; Xian Chen; *UNC at Chapel Hill, Chapel Hill, NC*
- MP 336 **Characterization of Electro-Chemiluminescent and Biotinylated Antibody Conjugate Reagents for Immunogenicity Assays by Mass Spectrometry**; Ola M. Saad; Jakub Baudys; Keyang Xu; Lara Williams; An Song; Valerie E. Quarmby; Surinder Kaur; *Genentech, Inc., South San Francisco, CA*
- MP 337 **Epitope Mapping on Bovine Prion Protein using Chemical Cross-Linking and Mass Spectrometry**; Tatiana Pimenova<sup>1</sup>; Alexis Nazabal<sup>1</sup>; Bernd Roschitzki<sup>2</sup>; Jan Seebacher<sup>3</sup>; Oliver Rinner<sup>4</sup>; Renato Zenobi<sup>1</sup>; <sup>1</sup>*ETH Zurich, Zurich, Switzerland*; <sup>2</sup>*Functional Genomics Center Zurich, Zurich, Switzerland*; <sup>3</sup>*University of Washington, Seattle, WA*; <sup>4</sup>*Institute for Molecular Systems Biology, ETHZ, Zurich, Switzerland*
- MP 338 **MS Identification of *Aspergillus fumigatus* T cell Epitopes: A Novel Strategy to Discover Candidate Vaccines that Enhance Cell-mediated Immunity**; Diana Diaz-Arevalo; Teresa Hong; Joseph Lyons; James Ito; Markus Kalkum; *City of Hope, Duarte, CA*
- MP 339 **“Top-down” and “Bottom-up” Epitope Mapping of Surface-bound Autoantigens: Development of an Epitope-Based Method for Diagnosis of Rare Autoimmune Diseases**; Thomas Deierling<sup>1</sup>; Peter Lorenz<sup>2</sup>; Cornelia Koy<sup>1</sup>; Michael Kreutzer<sup>4</sup>; Mike Schutkowski<sup>3</sup>; Johannes Zerweck<sup>3</sup>; Hans-Juergen Thiesen<sup>2</sup>; Michael O. Glocker<sup>1</sup>; <sup>1</sup>*Proteome Center Rostock, Rostock, Germany*; <sup>2</sup>*University of Rostock, Rostock, Germany*; <sup>3</sup>*JPT Peptide Technologies, Berlin, Germany*; <sup>4</sup>*STZ "Proteome Analysis", Rostock, Germany*
- MP 340 **Class I and II MHC Restricted Phosphopeptides as Cancer Immunotherapeutics or Diagnostics**; Jie Qian; Mark Cobbold; Angela Zarling; Valentina Robila; Dina Bai; Victor H. Engelhard; Jeffrey Shabanowitz; Donald F. Hunt; *University of Virginia, Charlottesville, VA*
- MP 341 **Identification of Peptides Presented by Diabetes-Related Class II MHC Molecules**; Henry W. Rohrs<sup>1</sup>; James J. Walters<sup>2</sup>; Anish Suri<sup>1</sup>; Emil R. Unanue<sup>1</sup>; Michael L. Gross<sup>1</sup>; <sup>1</sup>*Washington University, St. Louis, MO*; <sup>2</sup>*Sigma-Aldrich, St. Louis, MO*

TOXICOLOGY

342 - 360

- MP 342 **Covalent Modification of Model Peptides: Peptide Reactivity Testing Strategies**; Sandrine Jacquilloleot; Emma Thain; Raniero Zazzeroni; Maja Aleksic; *Unilever Colworth, Bedford, United Kingdom*
- MP 343 **Examination of the Formation of Isocyanate Adducts at Specific Amino Acid Residues on Human Serum Albumin by Mass Spectrometry**; Tasneem Muharib<sup>1</sup>;

POSTER SPACE

- Duncan A. Rimmer<sup>2</sup>; John White<sup>2</sup>; Malcolm R. Clench<sup>1</sup>; <sup>1</sup>*Sheffield Hallam University, Sheffield, United Kingdom*; <sup>2</sup>*Health and Safety Laboratory, Buxton, United Kingdom*
- MP 344 **Simultaneous Quantitation of Methylated Hemoglobin Adducts in Rat Blood with Signature Peptides by Liquid Chromatography-Negative Electrospray Tandem Mass Spectrometry**; Fagen Zhang; Lynn H. Pottenger; B. Bhaskar Gollapudi; Melissa R. Schisler; Michael J. Bartels; *The Dow Chemical Company, Midland, MI*
- MP 345 **Using LC/Triple Quadrupole Mass Spectrometry for a Fast Quantitation of Immunosuppressants in Blood**; Michael Zumwalt<sup>1</sup>; Linda Cote<sup>1</sup>; Jeff Keever<sup>1</sup>; Uwe Christians<sup>2</sup>; Jamie Bendrick-Pear<sup>2</sup>; <sup>1</sup>*Agilent Technologies, Englewood, CO*; <sup>2</sup>*Univ. Colorado Health Sciences Center, Denver, CO*
- MP 346 **Quantitation of DNA Adducts of Aristolochic Acid in Renal Tissue**; Robert A. Rieger; Radha Bonala; Andrea Fernandes; Shinya Shibutani; Charles R. Iden; *Stony Brook University, Stony Brook, NY*
- MP 347 **Isotope Labeling and Mass Spectrometry for Identifying Formaldehyde-induced Histone Modifications and DNA-protein Crosslinks**; Kun Lu; Gunnar Boysen; Lina Gao; Leonard B Collins; James A Swenberg; *University of North Carolina at Chapel Hill, Chapel Hill, NC*
- MP 348 **Automated SPE/LC/MS Method for the Analysis of THC and its Metabolites in Urine**; Martin Sibum<sup>1</sup>; Eshwar Jagerdeo<sup>2</sup>; John Crutchfield<sup>1</sup>; <sup>1</sup>*Spark Holland Inc., Emmen, Netherlands*; <sup>2</sup>*FBI Laboratory, Quantico, VA*
- MP 349 **Detection and Identification of Common Drugs of Abuse in Various Biological Matrices**; Richard H. Lauman<sup>1</sup>; Tania A. Sasaki<sup>2</sup>; Daniel Blake<sup>3</sup>; <sup>1</sup>*University of Massachusetts, Amherst, MA*; <sup>2</sup>*Applied Biosystems, Foster City, CA*; <sup>3</sup>*Applied Biosystems, Warrington, England, UK*
- MP 350 **A Proteomic Technique to Characterize *in vitro* Cellular Response using Nano-Flow Capillary LC Coupled to an LTQ-FTMS**; Jason W. Flora; Jeffery S. Edmiston; Rebecca R. Secrist; Gaurav S. Rana; Willie J. McKinney; *Philip Morris USA, Richmond, VA*
- MP 351 **GC-MS/MS Analysis of the Chemical Warfare Agent VX in Biological Matrices**; Christopher Byers; Jeffrey McGuire; Stanley Hulet; Edward Jakobowski; Sandra Thomson; *Edgewood Chemical Biological Center (ECBC), APG, MD, MD*
- MP 352 **Method Development for the Analysis of Algal Toxin, Microcystin and Nodularin by LC/MS/MS**; Daljit Yudathala; Margie Cummings; Lester Khoo; Lisa Murphy; *University of Pennsylvania, Kennett Square, PA*
- MP 353 **Determination of Cyclohexyl Methylphosphonic Acid (CMPA) Concentration in Minipig Plasma Following GF Vapor Exposure using LC/MSD TOF**; Ronald Evans<sup>1</sup>; Allison Totura<sup>2</sup>; Julie Renner<sup>2</sup>; E. Michael Jakobowski<sup>1</sup>; Stanley Hulet<sup>1</sup>; Sandra Thomson<sup>1</sup>; <sup>1</sup>*U.S. Army ECBC, Aberdeen Proving Grounds, MD*; <sup>2</sup>*SAIC, Aberdeen Proving Grounds, MD*
- MP 354 **Identification and Quantitation of Biodrugs by LC/MS using a a Multimode Ion Source**; Christian Vidal<sup>1</sup>; Stefan Czajkowski<sup>1</sup>; Korbinian Brand<sup>1</sup>; Sonja Oestreich<sup>2</sup>; Jürgen Wendt<sup>2</sup>; <sup>1</sup>*Institut für Klinische Chemie, MH Hannover, Hannover, Germany*; <sup>2</sup>*Agilent*

MONDAY POSTERS

POSTER SPACE

- Technologies Sales & Services GmbH & Co KG, Waldbronn, Germany*
- MP 355 **Analysis of Serum Samples for Cannabinoids and Amphetamines with RRLC/Triple Quadrupole Mass Spectrometry using a Multimode Ion Source;** Juergen Wendt<sup>1</sup>; J. Röhrich<sup>2</sup>; S. Zörntlein<sup>2</sup>; J. Becker<sup>2</sup>; <sup>1</sup>Agilent Technologies, Waldbronn, Germany; <sup>2</sup>Institute of Legal Medicine, University Mainz, Mainz, Germany
- MP 356 **Mass Spectrometric Analysis to Identify Metabolites Involved in Naphthalene Covalent Binding;** William T. Jewell; *University of California, Davis, CA*
- MP 357 **Simultaneous Analysis of Three Forms of Glyoxal-Induced DNA Crosslinks by nanoLC-Nanospray Ionization/Tandem Mass Spectrometry;** Yu-Chin Chen; Hauh-Jyun Candy Chen; *National Chung Cheng University, Ming-Hsiung, TAIWAN*
- MP 358 **Quantitative Analysis of Six Trace Elements in Human Blood by Dynamic Reaction Cell ICP-MS;** Changming Yang; Sum Chan; Richard E. Reitz; *Nichols Institute, Quest Diagnostics, San Juan Capistrano, CA*
- MP 359 **Effect of Arsenic on the Metabolism of 4-(Methylnitrosamino)-1-(3-pyridyl)-1- butanone (NNK) in Mice Analyzed by LC-MS/MS;** Hui-Ling Lee; *National Health Research Institutes, Miaoli, Taiwan*
- MP 360 **LC-MS/MS Elucidation of Immortal DNA Strands in Mouse Cell Models for Adult Stem Cell Asymmetric Self-Renewal;** Dayana Argoti<sup>1</sup>; Chris Utzat<sup>2</sup>; Art Lafleur<sup>2</sup>; James Sherley<sup>2</sup>; Paul Vouros<sup>1</sup>; <sup>1</sup>Northeastern University-Barnett Institute, Boston, MA; <sup>2</sup>Massachusetts Institute of Technology, Cambridge, MA

NEUROPEPTIDES  
361 - 372

- MPW 361 **Investigation of the Mammalian Sensory-Motor Circuit Using Direct MALDI-MS;** Stanislav S. Rubakhin; Jonathan V. Sweedler; *Department of Chemistry & Beckman Institute, UIUC, Urbana, IL*
- MPW 362 **Towards Proteomic Driven Annotation of Neuropeptide Genes in the Sea Urchin Genome;** Geert Baggerman<sup>1</sup>; Stanislav Rubakhin<sup>2</sup>; Eric Mornoe<sup>2</sup>; Andinet Amare<sup>2</sup>; Liliane Schoofs<sup>1</sup>; Jonathan Sweedler<sup>2</sup>; <sup>1</sup>K.U.Leuven, Leuven, Belgium; <sup>2</sup>University of Illinois, Urbana, IL
- MPW 363 **A Synthetic A $\beta$  Internal Standard for APP Catabolite Quantitation in CSF;** Ronald A. Miller; *Merck, West Point, PA*
- MPW 364 **Investigation of the Proteome of Cerebrospinal Fluid;** Ashley Beasley; Avindra Nath; Robert J. Cotter; *Johns Hopkins University School of Medicine, Baltimore, MD*
- MPW 365 **Mass Spectrometric Profiling of Neuropeptide Expression and Secretion Changes in Decapod Crustaceans in Response to Environmental Stress;** Ruibing Chen; Mingming Ma; Lingjun Li; *UW, Madison, Madison, WI*
- MPW 366 **Selective Sampling of Secreted Neuropeptides from the Brain;** Nathan G. Hatcher; Norman Atkins, Jr; Timothy A. Richmond; Martha U-. Gillette; Jonathan V. Sweedler; *University of Illinois at Urbana-Champaign, Urbana, IL*
- MPW 367 **Structural Characterization of Cockroach Peptides from Single Organs and Single Neurons using MALDI MS and IM-MS;** William K. Russell<sup>1</sup>; Reinhard Predel<sup>2</sup>; Susanne Neupert<sup>2</sup>; David H. Russell<sup>1</sup>; <sup>1</sup>Texas A&M University, College Station, TX; <sup>2</sup>Friedrich-Schiller-University, Jena, Germany

POSTER SPACE

- MPW 368 **Discovery and de novo Sequencing of Insect Neuropeptides Using Hybrid Linear Ion Trap/Orbitrap Mass Spectrometry;** Markus Kellmann<sup>1</sup>; Martijn Pinkse<sup>2</sup>; Thomas Moehring<sup>1</sup>; Peter Verhaert<sup>2</sup>; <sup>1</sup>Thermo Fisher Scientific, Bremen, Germany; <sup>2</sup>Delft University of Technology, Delft, The Netherlands
- MPW 369 **Mass Spectral Characterization of the CNS Peptidomes of the Lobster Homarus americanus and Crab Carcinus maenas;** Mingming Ma<sup>1</sup>; Ruibing Chen<sup>1</sup>; Andrew E. Christie<sup>2</sup>; Lingjun Li<sup>1</sup>; <sup>1</sup>School of Pharmacy & Department of Chemistry, University of Wisconsin-M, WI; <sup>2</sup>Department of Biology, University of Washington, Seattle, WA; <sup>3</sup>Mount Desert Island Biological Laboratory, Salisbury Cove, ME
- MPW 370 **Adaptations in Neuropeptide Levels in Response to Imipramine in Mouse Hypothalamus;** Anna Nilsson<sup>1</sup>; Maria Fälth<sup>1</sup>; Karl Sköld<sup>1</sup>; Per Svenningsson<sup>2</sup>; Per André<sup>1</sup>; <sup>1</sup>Uppsala University, Uppsala, Sweden; <sup>2</sup>Karolinska Institute, Stockholm, Sweden
- MPW 371 **Novel Peptides Identified from Mouse Brain Tissue;** Maria Fälth<sup>1</sup>; Marcus Svensson<sup>1</sup>; Karl Sköld<sup>1</sup>; Anna Nilsson<sup>1</sup>; David Fenyö<sup>2</sup>; Per E. André<sup>1</sup>; <sup>1</sup>Uppsala University, Uppsala, Sweden; <sup>2</sup>The Rockefeller University, New York, NY
- MPW 372 **Mass Spectrometric Analysis of Peptides in Developing Optic Nerve;** Elena V. Romanova; Julie A. Markham; William T. Greenough; Jonathan V. Sweedler; *University of Illinois, Urbana, IL*

PEPTIDES: GENERAL  
373 - 386

- MP 373 **A Rapid, Robust Technique for the High Resolution Discrimination, Analysis and, Quantitation of Human Milk Peptides;** Kirsten J Grant<sup>1</sup>; Randolph L Rill<sup>2</sup>; <sup>1</sup>Florida State University, Dept of Chem & Biochem, Tallahassee, Florida; <sup>2</sup>Florida State University College of Medicine, Tallahassee, FL
- MP 374 **Study of the Efficiency and Selectivity of Platinum-Based Drugs on Peptides and Proteins;** Angela Paul; *Institute Of Cancer Research, London, United Kingdom*
- MP 375 **MS Method to Report Disulfide Scrambling Due to Gamma Irradiation;** Sheng-xue Xie<sup>1</sup>; Todd D. Williams<sup>1</sup>; Dru Willey<sup>2</sup>; Elizabeth M. Topp<sup>1</sup>; <sup>1</sup>The University of Kansas, Lawrence, KS; <sup>2</sup>Clearant, Inc, Los Angeles, CA
- MP 376 **Mass Spectrometric Characterization of the Elastolytic Properties of Human Macrophage Elastase (MMP-12) on Human Skin Elastin;** Samuel Taddese; Reinhard H. H. Neubert; Christian E. H. Schmelzer; *Martin Luther University Halle Wittenberg, Halle (Saale), Germany*
- MP 377 **LC-MS Ion Profiling of Tetracosactide and Detection of Potential By-Products in Pharmaceuticals Finished Dosage Form;** John McHugh<sup>1</sup>; Louis-Philippe Labranche<sup>1</sup>; Suzanne Dumont<sup>1</sup>; Louise Fortin<sup>1</sup>; Andrei Nicolau<sup>1</sup>; Eric Bonneau<sup>2</sup>; Pierre Thibault<sup>2</sup>; Alain Carrier<sup>1</sup>; <sup>1</sup>Sandoz Canada, Boucherville, Canada; <sup>2</sup>Institute for Research in Immunology and Cancer, Montréal, Canada
- MP 378 **UV-induced Modification of Cysteine-containing Peptides in the Presence of DMSO;** Eugene Moskovets<sup>1</sup>; Nikolai Zvonok<sup>2</sup>; <sup>1</sup>SESI, Columbia, MD; <sup>2</sup>CDD, Northeastern University, Boston, MA
- MP 379 **Examination of the Secreted Peptidome of Primary Explant Cultures from Colonic Crypts of Adult Mice by nano-LC-FT-IT MS;** Nancy Andon; Svetlana Nikoulina; Mary Erickson; Carolyn Lowe; Richard

MONDAY POSTERS

POSTER SPACE

- Pittner; Soumitra Ghosh; Steven W Taylor; *Amylin Pharmaceuticals, Inc, San Diego, CA*
- MP 380 **Screening of RGD-Binding Integrin Subunit Peptide Domains via Reversed Phase-HPLC-ESI-MS with Post-Column Addition;** Abraham Lo<sup>1</sup>; Raji A. Misjudeen<sup>1</sup>; Jung-Mo Ahn<sup>2</sup>; Kevin A. Schug<sup>1</sup>; Maria Beall<sup>2</sup>; <sup>1</sup>*UT-Arlington, Arlington, TX*; <sup>2</sup>*Department of Chemistry UT-Dallas, Dallas, TX*
- MP 381 **Improved Detection of Proteolytic Peptides with and without Chemical Crosslinks by Quadrupole Fractionation Fourier Transform Ion Cyclotron Resonance Mass Spectrometry;** Bo Wang; Kristina Håkansson; *University of Michigan, Ann Arbor, MI*
- MP 382 **Using Mass Spectrometry to Elucidate the Structure of Dda Helicase;** Lauren P. Blair; Christopher R. Warthen; Alan J. Tackett; Kevin D. Raney; *University of Arkansas for Medical Sciences, Little Rock, AR*
- MP 383 **Incorporating Known Peptide Fragmentation Patterns into MASPIC Simplifies Manual Validations;** Chandra Narasimhan<sup>1</sup>; Edward C. Uberbacher<sup>2</sup>; <sup>1</sup>*UT-ORNL Genome Science & Tech., Oak Ridge, TN*; <sup>2</sup>*Life Science Division, Oak Ridge National Lab, Oak Ridge, TN*
- MP 384 **Neutralization-Reionization Mass Spectrometric and Computational Studies of Radical Hydrogen Atom Adducts to Urea and Guanidine;** Changtong Hao; František Turecek; *University of Washington, Seattle, WA*
- MP 385 **Using Dendrimers to Selective Extract and Concentrate Peptides for Analysis by MALDI-ToF Mass Spectrometry;** Andrea Gomez; Naresh Theddu; Sankaran Thayumanavan; Richard W. Vachet; *University of Massachusetts, Amherst, MA*
- MP 386 **Windows Into the Bird Brain: Seldi Kinetic Analysis of Peptide Sensitivity in Biofouled Microdialysis Probes;** Fiona Plows<sup>1</sup>; Eva Ihle<sup>2</sup>; <sup>1</sup>*Bio-Rad Laboratories, Inc., Fremont, CA*; <sup>2</sup>*UCSF, San Francisco, CA*

**PEPTIDES: POST TRANSLATIONAL MODIFICATIONS I  
387 - 404**

- MP 387 **On the Co-Purification of Sulfonated Peptides from Phospho Peptide Enriched Samples;** Bertran Gerrits<sup>1</sup>; Bernd Bodenmiller<sup>2</sup>; Christian Panse<sup>1</sup>; Simon Barkow<sup>1</sup>; Ruedi Aebersold<sup>2</sup>; Ralph Schlapbach<sup>1</sup>; <sup>1</sup>*Functional Genomics Center Zurich UZH|ETH Zurich, Zurich, Switzerland*; <sup>2</sup>*Institute of Molecular Systems Biology ETH Zurich, Zurich, Switzerland*
- MP 388 **Development of a Novel Chemical Probe for the Selective Enrichment of Phosphorylated Peptides from Complex Mixtures;** Pegah Jalili; Haydn L Ball; *UT Southwestern Medical Center, Dallas, TX*
- MP 389 **Mapping O-GlcNAc and Phosphorylation Sites in C-MYC and CTD Peptides by Electron Transfer Dissociation Mass Spectrometry;** Terry Zhang<sup>1</sup>; Tonya Pekar<sup>1</sup>; Rosa Viner<sup>1</sup>; Ken Miller<sup>1</sup>; T Lakshmanan<sup>2</sup>; Gerald W. Hart<sup>2</sup>; <sup>1</sup>*ThermoFisher Scientific, San Jose, CA*; <sup>2</sup>*Johns Hopkins University, School of Medicine, Baltimore, MD*
- MP 390 **Top Down Differentiation of Sulfation and Phosphorylation Sites on an Intact 7 kDa Chromogranin B Peptide;** Steven Taylor; Amy Hsieh; Nancy Andon; Soumitra Ghosh; *Amylin Pharmaceuticals, San Diego, CA*
- MP 391 **Isolation of Phosphopeptides by a Novel, pI-Difference-Based Electrophoresis Method;** Yingda Xu; Robert Sprung; Sung Won Kwon; Sung Chan Kim;

POSTER SPACE

- Yue Chen; Yingming Zhao; *University of Texas Southwestern Medical Center, Dallas, TX*
- MP 392 **Data Dependent Analysis of Phosphopeptides upon Higher Energy C-Trap Dissociation (HCD) using a Hybrid Linear Ion Trap - Orbitrap MS;** Kerstin Strupat; Eugen N. Damoc; Oliver Lange; Eduard Denisov; Alexander Makarov; Thomas Moehring; *ThermoFisherScientific, Bremen, Germany*
- MP 393 **Identification of Novel Acetylation Sites on Human Mitogen-Activated Protein Kinase Kinase Using a Mass Spectrometry Based Approach;** Yan Li; Haydn L. Ball; Sohini Mukherjee; Gladys Keitany; Yong Wang; Elizabeth J. Goldsmith; Kim Orth; *University of Texas Southwestern Medical Center, Dallas, TX*
- MP 394 **Specific Detection of Sulfated Insect Neuropeptides on an Orbitrap using Neutral Loss Driven MS3;** Martijn Pinkse<sup>1</sup>; Markus Kellmann<sup>2</sup>; Thomas Möhring<sup>2</sup>; Peter Verhaert<sup>1</sup>; <sup>1</sup>*Delft University of Technology, Delft, Netherlands*; <sup>2</sup>*Thermo Fisher Scientific, Bremen, Germany*
- MP 395 **A Proteomic Screen to Decipher the Histone Code Interactome by SILAC-Based Quantitative Proteomics;** Michiel Vermeulen; Matthias Mann; *Max Planck Institute for Biochemistry, Martinsried near Munich, Germany*
- MP 396 **Phosphoproteome of Synaptoneurosomes from Cocaine Treated Rats;** Christian Collin-Hansen<sup>1</sup>; Erol E. Gulcicek<sup>2</sup>; Kenneth R. Williams<sup>2</sup>; Christopher M. Colangelo<sup>2</sup>; Angus C. Nairn<sup>1</sup>; <sup>1</sup>*Psychiatry, Yale University, New Haven, CT*; <sup>2</sup>*W.M. Keck Foundation Biotech. Resource Laboratory, New Haven, CT*
- MP 397 **Robust Enrichment of Phosphopeptides from Serum using-Titania Coated Magnetic Beads for Rapid Profiling of Biomarkers by Mass Spectrometry;** Alvydas Mikulskis; Yang Wang; Alla Bogdanova; Eva Golenko; Wayne F. Patton; *PerkinElmer, Waltham, MA*
- MP 398 **Kinetics of Tyrosylprotein Sulfotransferase using Mass Spectrometry;** Lieza A. Danan; Julie A. Leary; *University of California, Davis, CA*
- MP 399 **β-Elimination/Michael Addition and Size-Label Tagging for Mass Spectrometric Analysis of Protein Post-translational Modifications;** Hua Yang; Yu Shi; Xudong Yao; *Dept of Chemistry, University of Connecticut, Storrs, CT*
- MP 400 **Protein Kinase A Represses Skeletal Myogenesis by Targeting Myocyte Enhancer Factor 2 D: An Investigation by Mass Spectrometry;** Min Du<sup>1</sup>; Robert L. S. Perry<sup>1</sup>; Xu Guo<sup>2</sup>; K. W. Michael Siu<sup>1</sup>; John C. McDermott<sup>1</sup>; <sup>1</sup>*York University, Toronto, CANADA*; <sup>2</sup>*Applied Biosystem/MDS Sciex, Concord, Canada*
- MP 401 **Biochemical Investigation of Phosphorylation Sites of Heat Shock Protein gp96;** Julie A. Corbo; Reema Harish; Brian E. Acheson; Michael P. Dabritz; Benjamin P. Roscoe; Joan C. Gorga; Roman M. Chic; Andy J. Tomlinson; *Antigenics, Inc., Lexington, MA*
- MP 402 **Enzyme-cleavable Tandem Peptides as Tools for Determination of Relative Ionization Efficiencies;** Wolf D. Lehmann; Rüdiger Pipkorn; Chien-Wen Hung; *German Cancer Research Center, Heidelberg, Germany*
- MP 403 **Assessing the Phosphorylation and Lysine-Acetylation Status of Estrogen Receptor Alpha Isolated from Human Breast Cancer Cells;** David J. Britton; Christian Atsriku; Birgit Schilling; Chrystal Berger; Gary K Scott; Michael M Baldwin; Michael P

MONDAY POSTERS

POSTER SPACE

Cusack; Jason Held; Simon Allen; Christopher C Benz; Bradford W Gibson; *Buck Institute For Age Research, Novato, CA*

PEPTIDES: QUANTITATION  
405 - 422

- MP 405 **UniqueSRM MS: Assigning Unequivocal Mass Addresses for Each Protein in Entire Proteomes;** Keith Ashman; Jamie Sherman; Matthew J. McKay; Mark P. Molloy; *APAF, Sydney, Australia*
- MP 406 **Software Tool for Correction of LC-MS Signal Intensities Following Multidimensional Peptide Separations;** Dmitri Sitnikov; Paul Kerney; Joanna Hunter; Clive Hayward; Isabelle Migneault; *Caprion Pharmaceuticals, Inc, St-Laurent, Canada*
- MP 407 **Nano-LC/MS/MS Quantification of Neuropeptides in CSF, Plasma and Brain Samples;** David P. Budac<sup>1</sup>; Laurie Allan<sup>2</sup>; Mark J. Hayward<sup>1</sup>; <sup>1</sup>*Lundbeck Research US, Paramus, NJ*; <sup>2</sup>*Eksigent Technologies, Monmouth Junction, NJ*
- MP 408 **Simultaneous Quantification of Acylated and Des-Acylated Ghrelin Peptides using Matrix Assisted Laser Desorption Ionization Time of Flight Mass Spectrometry;** Jill A. Willency; *Eli Lilly & Co., Greenfield, IN*
- MP 409 **Analysis of Hecidin from Urine Using Sample Purification On Chip (SPOC) - MALDI;** Christopher M. Belisle<sup>1</sup>; Kenyon M. Evans-Nguyen<sup>2</sup>; Richard Semba<sup>2</sup>; Luigi Ferrucci<sup>3</sup>; Robert J. Cotter<sup>2</sup>; <sup>1</sup>*Qiagen Sciences Inc., Fremont, CA*; <sup>2</sup>*Johns Hopkins University School of Medicine, Baltimore, MD*; <sup>3</sup>*National Institute on Aging, Clinical Research, Baltimore, MD*
- MP 410 **Reproducible and Rugged Absolute Peptide Quantification by LC-MS/MS: Importance of Peptide Hydrogen-Bonding to Silica Supports and Column Pore Size;** Carmen L. Fernandez-Metzler; Richard C. King; Elizabeth A. Mahan; *Merck Research Labs, WP 75-200, West Point, PA*
- MP 411 **Relative Quantification of Oxylipid-Modified Peptides using a QTrap Instrument;** Jianyong Wu; Juan Chavez; Claudia S. Maier; *Oregon State University, Corvallis, OR*
- MP 412 **Evaluation of the Metabolism of Kappa Opioid Receptor Peptide Antagonists in Rat Brain and Blood;** Kshitij A Patkar; Arvind Chappa; Susan Lunte; Jane V. Aldrich; *University of Kansas, Lawrence, KS*
- MP 413 **Effects of Physico-Chemical Parameters on ESI-MS Response Factors of GXG Tripeptides;** Misjudeen Raji; Kevin Schug; *University of Texas At Arlington, Arlington, TX*
- MP 414 **Targeted Quantitative Analysis of Lysine Acetylation;** Marc Gentzel; Matthias Wilm; *EMBL Heidelberg, Heidelberg, Germany*
- MP 415 **Quantitation of Defensin and Cathelicidin Peptides in Human Saliva;** Michael S. Gardner; Megan D. Rowland; James L. Stephenson, Jr; *Research Triangle Institute, RTP, NC*
- MP 416 **Plasma Protein Binding of a Polar Peptide Drug Determined by Equilibrium Dialysis and HILIC UPLC-MS/MS;** Anders Sonesson; Birgitte Buur Rasmussen; *Ferring Pharmaceuticals A/S, Copenhagen S, Denmark*
- MP 417 **Using LC-ESI-MS/MS with Stable Isotope Dilution to Track the Recovery of Amyloid-Beta Peptides During CSF Collection and Processing;** Tomoyuki Oe<sup>1</sup>; Bradley L. Ackermann<sup>2</sup>; Michael J. Berna<sup>2</sup>; Carlos O.

POSTER SPACE

Garner<sup>2</sup>; Koichi Inoue<sup>1</sup>; Ian A. Blair<sup>1</sup>; <sup>1</sup>*University of Pennsylvania, Philadelphia, PA*; <sup>2</sup>*Drug Disposition, Eli Lilly and Company, Greenfield, IN*

- MP 418 **Ultra Low Level Endogenous Peptide Quantitation using Two-Dimensional Reverse-Phase / Normal-Phase LC-LC-MS/MS;** Andrew D. Wagner; *Esoterix / LabCorp, Inc, Calabasas Hills, CA*
- MP 419 **Quantization of Isomeric Forms of Aspartic Acid in "Alzheimer Peptide" by ECD, CID and IRMP Methods;** Igor A. Popov<sup>1</sup>; Sergey A. Kozin<sup>3</sup>; Aleksey S. Kononikhin<sup>3</sup>; Ivan A. Boldin<sup>1</sup>; Oleg N. Kharybin<sup>3</sup>; Ekaterina F. Kolesanova<sup>3</sup>; Alexander I. Archakov<sup>3</sup>; Eugene Nikolaev<sup>1</sup>; <sup>1</sup>*The Institute for Energy Problems of Chemical Phys, Moscow, Russian Federation*; <sup>2</sup>*Institute for Biochemical Physics, Moscow, Russia*; <sup>3</sup>*Institute for Biomedical Chemistry, Moscow, Russia*
- MP 420 **Development and Evaluation of QconCAT Polypeptide Constructs for Absolute Quantification of Human Plasma Glycoproteins;** Hamid Mirzaei; Joshua McBee; Simon Letarte; Julian Watts; Rudi Aebersold; *Institute for Systems Biology, Seattle, WA*
- MP 421 **Quantitative Analysis of Peptides by Mass Spectrometry – Applicability in the Discovery of New Drugs and validation of biomarkers;** Constantin Tamvakopoulos; Zacharias D Sofianos; Theodora Katsila; Sofia Hatzieremia; Vagelis Balafas; Nikolaos G Kostomitsopoulos; *Foundation for Biomedical Research of the Academy, Athens, Greece*
- MP 422 **Peptide Ion Fragment Intensities as a Useful Parameter for Quantitation by MS;** Susan E. Abbatiello; Thomas P. Conrads; *University of Pittsburgh Cancer Institute, Pittsburgh, PA*

PROTEOMICS QUANTITATIVE: STABLE ISOTOPE LABELING  
423 - 431

- MP 423 **Evaluation of Periplasmic Proteome Enrichment by Differential Isotope Labeling and Mass Spectrometry;** W. Judson Hervey, IV; Dale A. Pelletier; Gregory B. Hurst; *Oak Ridge National Laboratory (ORNL), Oak Ridge, TN*
- MP 424 **Development of Tyrosinase-Immobilized Microreactor for Stable Isotopic Labeling of Tyrosine Residues;** Yong Seok Choi<sup>1</sup>; Christopher L. Pennington<sup>2</sup>; Troy D. Wood<sup>1</sup>; <sup>1</sup>*The State University of New York at Buffalo, Buffalo, NY*; <sup>2</sup>*University of Illinois at Chicago, Chicago, IL*
- MP 425 **Proteomic Analysis of Clostridium thermocellum Sub-cellular Fractions Using a Quantitative 15N-Metabolic Labeling Strategy;** You-Jun Fu; Herbert Strobel; Bert C. Lynn; *University of Kentucky, Lexington, KY*
- MP 426 **Differential Membrane Proteomics of the Bacterial Predator: Bdellovibrio bacteriovorus;** Pratik D Jagtap; Angela K Walker; John R Strahler; Eric S Simon; Maureen T Kachman; Janine R Maddock; Philip C Andrews; *University of Michigan, Ann Arbor, MI*
- MP 427 **Accurate Measurement of the Relative Ion Currents of <sup>16</sup>O/<sup>18</sup>O Labeled Peptides;** Phillip A. Wilmarth; Lucinda J. G. Robertson; Leif D. Rustvold; Ashok P. Reddy; Srinivasa R. Nagalla; Larry L. David; *OHSU, Portland, OR*
- MP 428 **Time Series Proteome Profiling to Elucidate ER Stress Response Pathway;** Michelle Mintz<sup>1</sup>; Adeline Vanderver<sup>1</sup>; Kristy Brown<sup>1</sup>; Joseph Lin<sup>1</sup>; Christine Kaneski<sup>2</sup>; Raphael Schiffmann<sup>2</sup>; Eric P Hoffman<sup>1</sup>;

MONDAY POSTERS

POSTER SPACE

- Yetrib Hathout<sup>1</sup>; <sup>1</sup>Children's Natl. Medical Center, Washington, DC; <sup>2</sup>NINDS/NIH, Bethesda, MD
- MP 429 **New Quantitative Method Based on Pseudo Internal Standards;** Yoshiya Oda; Tsuyoshi Tabata; Tatsuji Nakamura; Toshitaka Sato; Junro Kuromitsu; Eisai, Tsukuba, Japan
- MP 430 **A Comprehensive Strategy for Quantitative Membrane Proteomics;** Chia-Li Han<sup>1</sup>; Chih-Wei Chien<sup>2</sup>; Yet-Ran Chen<sup>3</sup>; Yu-Ju Chen<sup>4</sup>; <sup>1</sup>Department of Chemistry, NTNU, Taipei, Taiwan; <sup>2</sup>Graduate Institute of Medical Biotechnology, CGU, Tao-Yuan, Taiwan; <sup>3</sup>Institute of Bioscience and Biotechnology, NTOU, Keelung, Taiwan; <sup>4</sup>Institute of chemistry, Academia sinica, Taipei, Taiwan
- MP 431 **Quantitative Community Proteomics using Metabolic Stable Isotope Labeling for Characterizing a Natural Microbial Community;** Chongle Pan<sup>1</sup>; Chris Belnap<sup>2</sup>; Nathan Verberkmoes<sup>1</sup>; Vincent Deneft<sup>2</sup>; Manesh Shah<sup>1</sup>; Nagiza Samatova<sup>1</sup>; Jillian Banfield<sup>2</sup>; Robert Hettich<sup>1</sup>; <sup>1</sup>Oak Ridge National Lab, Oak Ridge, TN; <sup>2</sup>University of California at Berkeley, Berkeley, CA

**PROTEOMICS: PHOSPHORYLATION**  
432 - 446

- MP 432 **Optimized LC-MS/MS for Analysis of Multiply Phosphorylated Peptides of IGFBP1 from Amniotic Fluid of IUGR Patient;** Suya Liu<sup>1</sup>; Majida Abu Shehab<sup>2</sup>; Madhulika B Gupta<sup>2</sup>; Victor K. M. Han<sup>2</sup>; Gilles Lajoie<sup>1</sup>; <sup>1</sup>University of Western Ontario, London, ON, Canada; <sup>2</sup>Children's Health Research Institute, London, ON, Canada
- MP 433 **Influence of Physico-Chemical Properties of Titania on Phosphopeptide Enrichment for Phosphoproteomics;** Yasushi Ishihama<sup>1</sup>; Yutaka Kyono<sup>2</sup>; Naoyuki Sugiyama<sup>3</sup>; Sumiko Ohnuma<sup>1</sup>; Yasuyuki Igarashi<sup>1</sup>; Kazuo Tani<sup>4</sup>; Masaru Tomita<sup>1</sup>; <sup>1</sup>Keio University, Tsuruoka, JAPAN; <sup>2</sup>GL Sciences, Iruma, Japan; <sup>3</sup>Human Metabolome Technologies, Tsuruoka, Japan; <sup>4</sup>Yamanashi University, Kofu, Japan
- MP 434 **Identification of Phosphorylation Sites in soluble Guanylyl Cyclase by Quantitative Proteomic Analysis using Stable Isotope Labeling and LC-nESI Tandem MS;** Spiros D. Garbis<sup>1</sup>; Fotini N. Bazoti<sup>2</sup>; Andreas Papapetropoulos<sup>3</sup>; Anthony Tsarbopoulos<sup>3</sup>; <sup>1</sup>Biomedical Research Foundation of Athens Academy, Athens, Greece; <sup>2</sup>GALA Research Center, Kifissia, Greece; <sup>3</sup>University of Patras, Patras, Greece
- MP 435 **A Phosphoproteomic Approach to Mapping Novel Phosphorylation Sites in a WNK Family Kinase;** Jesse Rinehart; Caleb A. Hodson; Kathryn L. Stone; Richard P. Lifton; Erol E. Gulcicek; Yale University, New Haven, CT
- MP 436 **Characterization of IMAC and TiO<sub>2</sub> with Application to Studying the Dynamic Regulation of Phosphorylation;** Xiquan Liang; Gier Fonnum; Mahbod R. Hajivandi; Torkel Stene; Nini H. Kjus; Erlend Ragnhildstveit; Joseph W. Amshey; Paul Predki; Marshall Pope; Invitrogen, R & D, Carlsbad, CA
- MP 437 **Direct and Quantitative Comparison of IMAC and Titanium Dioxide for Large-Scale Enrichment and Identification of Phosphopeptides;** Markus Schirle; Marcus Bantscheff; Manfred Raida; Bernhard Kuster; Cellzome AG, Heidelberg, Germany
- MP 438 **Desalting Phosphopeptides by Solid-Phase Extraction;** Andrew J. Alpert<sup>1</sup>; Steven P. Gygi<sup>2</sup>; Ashok K. Shukla<sup>3</sup>; <sup>1</sup>PolyLC Inc., Columbia, MD; <sup>2</sup>Harvard

POSTER SPACE

- Medical School, Boston, MA; <sup>3</sup>Glygen Corp., Columbia, MD
- MP 439 **Relative Quantification of Phosphorylated Proteins in SK-MEL-28 Cells, Treated with a selective Small Molecule Inhibitor of B-Raf kinase, SB-590885;** Helen Flynn<sup>1</sup>; Simon Gaskell<sup>2</sup>; <sup>1</sup>GlaxoSmithKline, Stevenage, United Kingdom; <sup>2</sup>University of Manchester, Manchester, United Kingdom
- MP 440 **IMAC is a Reproducible Tool for Quantitative Phosphoproteomic Analyses;** Francesca Zappacosta; Melissa M. Dix; Michael J. Huddleston; Roland S. Annan; GlaxoSmithKline, King of Prussia, PA
- MP 441 **Mass Spectrometry Studies of the Cell-Cycle Dependent Phosphorylation of the Nuclear Pore Nup107-160 Subcomplex;** Joseph Glavy<sup>1</sup>; Ileana M. Cristea<sup>2</sup>; Andrew Krutchinsky<sup>3</sup>; Günter Blobel<sup>1</sup>; Brian T. Chait<sup>2</sup>; <sup>1</sup>HHMI/Rockefeller University, New York, NY; <sup>2</sup>The Rockefeller University, New York, NY; <sup>3</sup>UCSF, San Francisco, CA
- MP 442 **Evaluation of Phosphopeptide Enrichment Procedures for Titanium Dioxide and Zirconium Dioxide Chromatography;** Martin R. Larsen; Kasper Engholm-Keller; Soren S. Jensen; University of Southern Denmark, Odense, Denmark
- MP 443 **Effect of Chelating Enhancers on Phosphopeptide Enrichment by Ligand Exchange Metal Oxide Chromatography using Titania and Zirconia;** Yutaka Kyono<sup>1</sup>; Naoyuki Sugiyama<sup>2</sup>; Sumiko Ohnuma<sup>3</sup>; Takeshi Masuda<sup>3</sup>; Masaru Tomita<sup>3</sup>; Yasushi Ishihama<sup>3</sup>; <sup>1</sup>GL Science Inc., Iruma, Japan; <sup>2</sup>Human Metabolome Technologies, Inc., Tsuruoka, Japan; <sup>3</sup>Institute for Advanced Biosciences, Keio University, Tsuruoka, Japan
- MP 444 **Detection of Phosphopeptides Selectively Captured on a MALDI Plate Functionalized by Soft-landing of Gas Phase Zirconium Propoxide;** Grady R. Blacken; Michael Volny; Frantisek Turecek; University of Washington, Seattle, WA
- MP 445 **An Automated Dual Trap & Column Arrangement for Online nanoLC-ESI-MS/MS Enrichment and Analysis of Phosphopeptides;** Allis S. Chien; Andrew W. Guzzetta; SU Mass Spectrometry, Stanford University, Stanford, CA
- MP 446 **Analysis of Recalcitrant Phosphopeptides in Protein Complexes;** Thomas De vijlder<sup>1</sup>; Kris Laukens<sup>1</sup>; Stefaan Vandamme<sup>3</sup>; Geert De Jaeger<sup>2</sup>; Filip Lemiére<sup>3</sup>; Harry Van Onckelen<sup>1</sup>; Erwin Witters<sup>3</sup>; <sup>1</sup>University of Antwerp; Dept. Biology, Antwerp, Belgium; <sup>2</sup>Flemish Institute for biotechnology (VIB), Ghent, Belgium; <sup>3</sup>University of Antwerp; Dept. Chemistry, Antwerp, Belgium

**PROTEINS: MODIFIED I**  
447 - 463

- MP 447 **The Site of Modification and Mechanism of Inactivation of Glyceraldehyde-3-Phosphate Dehydrogenase Upon Nitration;** Vikram Palamalai<sup>1</sup>; Masaru Miyagi<sup>2</sup>; <sup>1</sup>University of North Dakota, Grand Forks, ND; <sup>2</sup>Case Western Reserve University, Cleveland, OH
- MP 448 **Characterization of Human Histone H3 by ESI/FTICR/ECD MS/MS;** Frank Li; Raya Talroze; Feixia Chu; Shenheng Guan; Al Burlingame; University of California San Francisco, San Francisco, CA
- MP 449 **Assessment of Post-Translational Modifications on All Core Histones in Selected Yeast Mutants Using Top Down Mass Spectrometry;** Lihua Jiang; University of Illinois at Urbana-Champaign, Urbana, IL

MONDAY POSTERS

POSTER SPACE

- MP 450 **Whole Proteome Analysis of Post-Translational Modifications;** Nitin Gupta<sup>1</sup>; Stephen Tanner<sup>1</sup>; Navdeep Jaitly<sup>2</sup>; Joshua Adkins<sup>2</sup>; Mary Lipton<sup>2</sup>; Robert Edwards<sup>1</sup>; Margaret Romine<sup>2</sup>; Andrei Osterman<sup>3</sup>; Vineet Bafna<sup>1</sup>; Richard Smith<sup>2</sup>; Pavel Pevzner<sup>1</sup>; <sup>1</sup>University of California San Diego, La Jolla, CA; <sup>2</sup>Pacific Northwest National Laboratory, Richland, WA; <sup>3</sup>Burnham Institute for Medical Research, La Jolla, CA; <sup>4</sup>San Diego State University, San Diego, CA
- MP 451 **Nitration of Tyrosine Residues within eNOS Protein Utilizing Tetranitromethane, with Tryptic Digest and LTQ Mass Spectrometer;** Mike Zickus<sup>1</sup>; <sup>1</sup>Northern Illinois University, DeKalb, IL; <sup>2</sup>Medical College of Georgia, Augusta, Georgia
- MP 452 **Protein Analysis of Glomeruli In Cyclosporin A Treated Rats: Investigation of Redox Processes;** Kristen D. Herring<sup>1</sup>; Corbin A. Whitwell<sup>1</sup>; David B. Friedman<sup>1</sup>; Axel Ducret<sup>2</sup>; Richard M. Caprioli<sup>1</sup>; <sup>1</sup>Vanderbilt University, Nashville, TN; <sup>2</sup>Roche Center for Medical Genomics, Basel, Switzerland
- MP 453 **Quantitative Study of the Acetylation of HMG1A1 Proteins *in vitro* and *in vivo*;** Qingchun Zhang; Yinsheng Wang; University of California at Riverside, Riverside, CA
- MP 454 **LC/Mass Spectrometric Study of Site-Selective Tyrosine Self-Nitration of Human Hemoglobin in the Presence of Nitrite/H2O2 and Nitrotyrosine Reduction by Antioxidant;** Chia-ming Chang; Hauh-Jyun Candy Chen; National Chung Cheng University, Chia-Yi, Taiwan
- MP 455 **Development of a Screening Assay for Ligands to the Estrogen Receptor Based on Magnetic Nano/Microparticles and LC-MS;** Yongsoo Choi; Richard B van Breemen; University of Illinois College of Pharmacy, Chicago, IL
- MP 456 **A Mass Spectrometric Study on the *in-vitro* Methylation of HMG1A1a and HMG1A1b proteins by PRMTs;** Yan Zou<sup>1</sup>; Kristofor Webb<sup>2</sup>; Avi Perna<sup>1</sup>; Steven Clarke<sup>2</sup>; Yinsheng Wang<sup>1</sup>; <sup>1</sup>University of California, Riverside, Riverside, CA; <sup>2</sup>University of California, Los Angeles, Los Angeles, CA
- MP 457 **Covalent Modification of Proteins by Lipid Peroxidation Products: Characterization by Electrospray Ionization and Ion Trap / FT-ICR Mass Spectrometry;** Navin Rauniyar; Katalin Prokai-Tatrai; Stanley M. Stevens; Laszlo Prokai; University of North Texas Health Science Center, Fort Worth, TX
- MP 458 **Characterization of "Clipped" Histone H3 Involved in the Differentiation of Murine Embryonic Stem Cells;** Tara L. Muratore<sup>1</sup>; Elizabeth M. Duncan<sup>2</sup>; Jeffrey Shabanowitz<sup>1</sup>; C. David Allis<sup>2</sup>; Donald F. Hunt<sup>1</sup>; <sup>1</sup>University of Virginia, Charlottesville, VA; <sup>2</sup>The Rockefeller University, New York, NY
- MP 459 **Studying Glycation of Selected Food Protein by Mass Spectrometry Based Analysis;** Dongliang (Eric) Ruan; C.Y. Ma; I.K. Chu; the University of HongKong, Hong Kong, CHINA
- MP 460 **Qualitative and Quantitative Analysis of UVA-induced Oxidative Damage to the Human Lens  $\alpha$ B Crystallin;** David R. Stella; Kerri Barrett; Doyle "Ray" Moore II; Shannon M. Eliuk; Om P Srivastava; Stephen Barnes; University of Alabama at Birmingham, Birmingham, AL
- MP 461 **Modifying the Charge State Distribution of Proteins in Electrospray Ionization Mass Spectrometry;** Brian

POSTER SPACE

- L. Frey<sup>1</sup>; Casey J. Krusemark<sup>1</sup>; Shane M. Lamos<sup>2</sup>; Peter J. Belshaw<sup>1</sup>; Lloyd M. Smith<sup>1</sup>; <sup>1</sup>University of Wisconsin-Madison, Madison, WI; <sup>2</sup>Saint Michael's College, Colchester, VT
- MP 462 **Identification of Protein Methylation at Aspartate and Glutamate Residues by Exhaustive HPLC/MS/MS;** Robert W. Sprung, Jr.<sup>1</sup>; Yue Chen<sup>1</sup>; Junmin Peng<sup>2</sup>; Terry Zhang<sup>3</sup>; Yingming Zhao<sup>1</sup>; <sup>1</sup>UT Southwestern Medical Center, Dallas, TX; <sup>2</sup>Emory University, Atlanta, GA; <sup>3</sup>Thermo Electron Corporation, San Jose, CA
- MP 463 **Toward Determining the Biological Function of a Novel Post-translational Modification on the Ribosomal Protein S12;** Michael Brad Strader<sup>1</sup>; Nina Costantino<sup>2</sup>; Cai Chen<sup>1</sup>; Anthony J. Makusky<sup>1</sup>; Jeffrey A. Kowalak<sup>1</sup>; Donald L. Court<sup>2</sup>; Sanford P. Markey<sup>1</sup>; <sup>1</sup>National Institute of Mental Health, Bethesda, Maryland; <sup>2</sup>National Cancer Institute, Frederick, Maryland

PROTEOMICS: MEMBRANE  
464 - 473

- MP 464 **Identification and Quantification of Membrane Proteins using iTRAQ Labeling and the New Paragon Database Search Algorithm;** Wolfgang Rist<sup>1</sup>; Dietrich Merkel<sup>2</sup>; Martin Lenter<sup>1</sup>; Matthias Glückmann<sup>2</sup>; Dietmar Waidelich<sup>2</sup>; <sup>1</sup>Boehringer Ingelheim Pharma GmbH & Co. KG, Biberach an der Riss, Germany; <sup>2</sup>Applied Biosystems, Darmstadt, Germany
- MP 465 **Analysis of the Mammalian Mitochondrial Inner Membrane Proteome;** Ian M Fearnley; Joe Carroll; Matthew C Altman; John E Walker; Medical Research Council Dunn Human Nutrition Unit, Cambridge, United Kingdom
- MP 466 **Comparison of the Extracellular Matrix Proteome isolated using Deoxycholate and Blendzyme combined with Mass Spectrometry Analysis;** Zhen Xiao<sup>1</sup>; Lidia Hernandez<sup>1</sup>; Timothy D. Veenstra<sup>1</sup>; Colin Stewart<sup>2</sup>; <sup>1</sup>SAIC-Frederick, Frederick, MD; <sup>2</sup>National Cancer Institute at Frederick, Frederick, MD
- MP 467 **Targeted Approaches to Study the Plasma Membrane Proteome of the Olfactory Epithelium of *Mus musculus* by Mass Spectrometry;** Jenny Adler<sup>1</sup>; Jon Barbour<sup>1</sup>; Silke Oeljeklaus<sup>1</sup>; Eva Neuhaus<sup>2</sup>; Hanns Hatt<sup>2</sup>; Helmut E. Meyer<sup>1</sup>; Bettina Warscheid<sup>1</sup>; <sup>1</sup>Medical Proteom-Center, Bochum, Germany; <sup>2</sup>Cellphysiology, Bochum, Germany
- MP 468 **Proteomic Characterization of Exosomes from Human Urine;** Amir Rahbar; Frances Ligler; U.S. Naval Research Lab, Washington, DC
- MP 469 **Dissecting the Membrane Proteome of Human Epidermal Melanocytes;** Josip Blonder<sup>1</sup>; Atsushi Terunuma<sup>2</sup>; Veena Kapoor<sup>2</sup>; William G. Telford<sup>2</sup>; King Chan<sup>1</sup>; Zhaojing Meng<sup>1</sup>; Donald J. Johann<sup>2</sup>; Haleem J. Issaq<sup>1</sup>; Jonathan C. Vogel<sup>2</sup>; Timothy D. Veenstra<sup>1</sup>; <sup>1</sup>SAIC-Frederick, Frederick, MD; <sup>2</sup>National Cancer Institute, Bethesda, MD
- MP 470 **Global Membrane Proteome Studies on the Luminal Microvascular Endothelial Cell Surfaces of Multiple Tissues *in vivo*;** Yan Li; Jingyi Yu; Jacqueline Testa; Adrian Chrastina; Huei-luen Huang; Sabrina Shore; Fred Long; Eberhard Durr; Phil Oh; Jan E. Schnitzer; Sidney Kimmel Cancer Centre, San Diego, CA
- MP 471 **Towards the Complete Mitochondrial Proteome;** Albert Sickmann; Rudolf-Virchow-Center for Exper. Med., Wuerzburg, Germany

MONDAY POSTERS

POSTER SPACE

- MP 472 **nQuant and Two-Dimensional Peptide Mapping: Relative Protein Quantification using Normalized MALDI-TOF Data;** Christoph Roesli; Patrick Pedrioli; Dario Neri; *ETH Zurich, Zurich, Switzerland*
- MP 473 **Cell Surface Antigen Identification of Melanoma by SILAC using Mass Spectrometry;** Guangyu Zhang<sup>1</sup>; Saulius Jarmalavicius<sup>2</sup>; Peter Walden<sup>2</sup>; <sup>1</sup>*Mitchell Cancer Institute, Univ. South Alabama, Mobile, AL*; <sup>2</sup>*Charite, Humboldt University, Berlin, Germany*

**PROTEIN: CONFORMATION I**  
474 - 498

- MP 474 **Conformational Studies of Phosphorylated Motif in  $\alpha$ -casein using Hydrogen Exchange Mass Spectrometry;** Shao-Ching Hung; Demetrius R. Dielman; Krishna Kuppannan; Vickie L. Langer; Anton S. Karnoup; Scott A. Young; *The Dow Chemical Company, Midland, MI*
- MP 475 **Detection and Characterization of AL Light Chain Proteins from Fibrils;** Zhenning Hong; Roger Théberge; Yan Jiang; Amareth Lim; Tatiana Prokaeva; Lawreen H. Connors; Martha Skinner; Catherine E. Costello; *Boston University, Boston, MA*
- MP 476 **Direct Comparison of Structures of Wild Type- and Mutant Cu/Zn-Superoxide Dismutase by H/D Exchange Mass Spectrometry;** Qi Wang<sup>1</sup>; Ashutosh Tiwari<sup>2</sup>; Lawrence J. Hayward<sup>2</sup>; Jeffrey N. Agar<sup>1</sup>; <sup>1</sup>*Brandeis University, Waltham, MA*; <sup>2</sup>*University of Massachusetts Medical School, Worcester, MA*
- MP 477 **Structural Examination of the ClpAP Protease Complex via Synchrotron Radiolysis and Mass Spectrometry;** Jen Bohon<sup>1</sup>; Laura Jennings<sup>2</sup>; Stuart Licht<sup>2</sup>; Mark Chance<sup>1</sup>; <sup>1</sup>*Case Western Reserve University, Upton, NY*; <sup>2</sup>*Massachusetts Institute of Technology, Cambridge, MA*
- MP 478 **Fluorescence Measurements of a Single Unsolvated Biomolecule: Conformation Fluctuations;** Joel H. Parks; Denis Duft; Xiangguo Shi; *Rowland Institute at Harvard, Cambridge, MA*
- MP 479 **Probing of the Binding Properties of Acetobacter Aceti Citrate Synthase Using PLIMSTEX and Local H/D Exchange;** Sandra Kerfoot; Don L. Rempel; T. Joseph Kappock; Michael L. Gross; *Washington University, St. Louis, MO*
- MP 480 **Comparing the Conformational Dynamics of Enzymes and Non-Enzymatic Proteins by Hydrogen-Deuterium Exchange and ESI-MS;** Yuhong Liu; Lars Konermann; *University of Western Ontario, London, Canada*
- MP 481 **Two Non-Covalently Bound Antagonists on the Human RXR $\alpha$  LBD Protein Studied by Hydrogen/Deuterium Exchange and Mass Spectrometry;** Xuguang Yan; David Broderick; Jeff Morre; Michael Schimerlik; Max Deinzer; *Oregon State University, Corvallis, OR*
- MP 482 **Mass Spectral Analysis of  $\beta$ 2-Microglobulin Oligomers;** Mark Olbris; Kwasi Antwi; R. Srikanth; Richard W. Vachet; *University of Massachusetts, Amherst, MA*
- MP 483 **Gas-phase Conformations of Protonated Serine Octamers, Peptides, and Proteins Using Infrared Photodissociation Spectroscopy with FTMS;** Xianglei Kong<sup>1</sup>; Giuseppe Infusini<sup>2</sup>; Cheng Lin<sup>2</sup>; Honghai Jiang<sup>1</sup>; Kathrin Breuker<sup>3</sup>; Fred. W. McLafferty<sup>1</sup>; <sup>1</sup>*Cornell University, Ithaca, NY*; <sup>2</sup>*Boston University School of*

POSTER SPACE

- Medicine, Boston, MA*; <sup>3</sup>*University of Innsbruck, Innsbruck, Austria*
- MP 484 **Gas Phase Conformations of Protein Ions Formed from Two Different Solution Conformations;** Jianmin Zhang; D. J. Douglas; *University of British Columbia, Vancouver, Canada*
- MP 485 **Protein Conformational Changes Monitored by Gamma Ray-induced Hydroxyl Radical Labeling and ESI-MS;** Xin Tong; Lars Konermann; *University of Western Ontario, London, Canada*
- MP 486 **Extending PLIMSTEX by using MALDI/MS;** A T Manohari Silva; M. L. Gross; *Washington University in St. Louis, Mass Spectromet, St. Louis, MO*
- MP 487 **Allosteric Activation of BirA Protein Studied by Hydrogen/Deuterium Exchange Mass Spectrometry;** Olli Laine; Emily D Streaker; Catherine Fenselau; Dorothy Beckett; *University of Maryland, College Park, MD*
- MP 488 **Conformational Changes in Opioid-Related Peptides Induced by Membrane-Mimetic Systems as Studied Using Hydrogen/Deuterium Exchange;** Deepa Kunapuram; Chhbil Dass; *The University of Memphis, Memphis, TN*
- MP 489 **Hydrogen Exchange Shows that Phosphorylation Causes Changes in Intramolecular Interactions;** Shugui Chen<sup>1</sup>; Thomas E. Smithgall<sup>2</sup>; John R. Engen<sup>1</sup>; <sup>1</sup>*Northeastern University, Boston, MA*; <sup>2</sup>*University of Pittsburgh School of Medicine, Pittsburgh, PA*
- MP 490 **Modulation of Transferrin Conformation by Metal Binding Studied by Hydrogen Exchange and Mass Spectrometry;** Mingxuan Zhang<sup>1</sup>; Anne B. Mason<sup>2</sup>; Igor A. Kaltashov<sup>1</sup>; <sup>1</sup>*University of Massachusetts, Amherst, MA*; <sup>2</sup>*University of Vermont, Burlington, VT*
- MP 491 **Identification of the Inter-Subunit Interactions Driving Maturation of HIV-1 Capsids using Mass Spectrometry based Hydrogen/Deuterium Exchange;** Sebyung Kang; Matthew B. Renfrow; Peter E. Prevelige; *University of Alabama at Birmingham, Birmingham, AL*
- MP 492 **Hydrogen Deuterium Exchange Mass Spectrometry to Study the Assembly Mechanisms of Ebola Virus Matrix Protein VP40;** Leslie Silva<sup>1</sup>; Michael Vanzile<sup>2</sup>; M. Javad Aman<sup>2</sup>; David C. Schriemer<sup>1</sup>; <sup>1</sup>*University of Calgary, Calgary, Canada*; <sup>2</sup>*US Army Medical Res. Inst. Infectious Disease, Frederick, MD*
- MP 493 **Use of Multiple Proteases to Improve Resolution and Accuracy in Hydrogen/Deuterium Exchange Monitored by FT-ICR Mass Spectrometry;** Huimin Zhang<sup>1</sup>; Mark R. Emmett<sup>1</sup>; Saša Kazazic<sup>2</sup>; Alan G. Marshall<sup>1</sup>; <sup>1</sup>*Florida State University, Tallahassee, FL*; <sup>2</sup>*Ruder Boškovic Institute, Zagreb, Croatia*
- MP 494 **Analysis of SH3 Domain Interactions with HIV Nef Derived from Long-term Non-progressing HIV+ Patients;** Thomas E. Wales<sup>1</sup>; Lori Emert-Sedlak<sup>2</sup>; Ronald P. Tribble<sup>2</sup>; Thomas E. Smithgall<sup>2</sup>; John R. Engen<sup>1</sup>; <sup>1</sup>*Northeastern University, Boston, MA*; <sup>2</sup>*University of Pittsburgh School of Medicine, Pittsburgh, PA*
- MP 495 **Mapping the Interaction between Phosphorylated Human Growth Hormone–Growth Hormone Receptor using Hydrogen/Deuterium Exchange Mass Spectrometry;** Hari Kosanam<sup>1</sup>; Francesco Giorgianni<sup>2</sup>; Chhbil Dass<sup>1</sup>; <sup>1</sup>*The University of Memphis, Memphis, TN*; <sup>2</sup>*University of Tennessee Health Science Center, Memphis, TN*



MONDAY POSTERS

POSTER SPACE

- MP 496 **Structural Characterization of Factor Xa Dimers in Solution by Differential Surface Modification and Mass Spectrometry;** Roxana E. Jacob<sup>1</sup>; Rima Chattopadhyay<sup>2</sup>; Shalmali Sen<sup>2</sup>; Barry R. Lentz<sup>2</sup>; Kenneth B. Tomer<sup>1</sup>; <sup>1</sup>Laboratory of Structural Biology, NIEHS, RTP, North Carolina; <sup>2</sup>Department of Biochemistry and Biophysics, UNC, Chapel Hill, North Carolina
- MP 497 **Improved Protein Surface Mapping using Amino Acid Specific Covalent Modifications Combined with Mass Spectrometry;** Vanessa Mendoza; Richard W. Vachet; *University of Massachusetts, Amherst, MA*
- MP 498 **Interaction of the Cellular Retinoic Acid Binding Protein with the Retinoic Acid Receptor: A Mass Spectrometric Study;** Virginie Sjoelund; Igor A. Kaltashov; *University of Massachusetts, Amherst, MA*

**PROTEOMICS: BIOMARKERS I**  
499 - 528

- MP 499 **Development of MRM Assays for Quantification of Low Abundance Biomarkers in Human Serum;** Catalin E. Doneanu<sup>1</sup>; Weibin Chen<sup>1</sup>; Asish Chakraborty<sup>1</sup>; Johannes P.C. Vissers<sup>2</sup>; Johannes M.F.G. Aerts<sup>3</sup>; James I. Langridge<sup>2</sup>; John C. Gebler<sup>1</sup>; <sup>1</sup>Waters Corporation, Milford, MA; <sup>2</sup>Waters Corp., Manchester, United Kingdom; <sup>3</sup>University of Amsterdam, Academic Medical Center, Amsterdam, The Netherlands
- MP 500 **Investigation of Individual Human Tear Samples from Dry Eye Symptomatic and Non-Symptomatic Contact Lens Wearers using Proteomic Methods;** Richard Sessler; Kari B. Green-Church; Nanette M. Kleinholz; Jason J. Nichols; *The Ohio State University, Columbus, OH*
- MP 501 **Biomarker Validation Strategies using Automated Ion Selection and Method Building;** David Cox; Stephen Tate; Eva Duchoslav; *Applied Biosystems/MDS Sciex, Concord, Canada*
- MP 502 **Discovery and Validation of Serum Biomarkers Expressed over the First Twelve Weeks of Fasciola Hepatica Infection in Sheep;** Marie-Claire Rioux<sup>1</sup>; C Carmona<sup>1</sup>; Brian J Ward<sup>1</sup>; Momar Ndao<sup>1</sup>; Robert Masse<sup>2</sup>; Hugh PJ Benett<sup>3</sup>; Terry Spithill<sup>1</sup>; Bernard F Gibbs<sup>3</sup>; <sup>1</sup>Centre for Parasitology McGill University, Montreal, Canada; <sup>2</sup>MDS Pharma Services, Montreal, Canada; <sup>3</sup>Sheldon Biotechnology Center, McGill University, Montreal, Canada
- MP 503 **Comparative Proteomics Study of Horse Seminal Proteins using MALDI-MS and MS/MS to Gain Insight into Fertility;** William K. Russell<sup>1</sup>; Brad J. Williams<sup>1</sup>; Issa Issac<sup>2</sup>; Neil Sharma<sup>2</sup>; Sara Falasca<sup>1</sup>; Stephanie M. Cologna<sup>1</sup>; Liuxi Chen<sup>1</sup>; Ya-Jung Lee<sup>1</sup>; Dickson Varner<sup>1</sup>; David H. Russell<sup>1</sup>; <sup>1</sup>Texas A&M University, College Station, TX; <sup>2</sup>Genomic Solutions, Ann Arbor, Michigan
- MP 504 **Proteomic Differential Expression of Colonic Biomarkers Associated with Crohn's Disease in a Mouse Model Using On-line 2D-LCMS and Decyder MS;** Janine M. Cooney<sup>1</sup>; Dwayne J. Jensen<sup>1</sup>; William A. Laing<sup>2</sup>; Matthew P.G. Barnett<sup>3</sup>; Warren C. McNabb<sup>3</sup>; Nicole C. Roy<sup>3</sup>; <sup>1</sup>NuNZ, HortResearch Ltd, Ruakura Research Centre, Hamilton, New Zealand; <sup>2</sup>NuNZ, HortResearch Ltd, Mt Albert Research Centre, Auckland, New Zealand; <sup>3</sup>NuNZ, AgResearch Ltd, Grasslands Research Centre, Palmerston North, New Zealand

POSTER SPACE

- MP 505 **Identification of Cellular Proteins Effected by the Decomposition of Lipid Hydroperoxide 13-HPODE and Identification of Major Ketone/Aldehyde Adducts Formed;** Peter G. Slade; Michelle V. Williams; John S. Wishnok; Steven R. Tannenbaum; *Massachusetts Institute of Technology, Cambridge, MA*
- MP 506 **Utilizing a Rat Model of Diabetes to Identify Urine Biomarkers for Early Diagnosis of Bladder Dysfunction;** Daniela M Schlutzer<sup>1</sup>; Serguei Iltchenko<sup>1</sup>; Elizabeth Yohannes<sup>1</sup>; Benlian Wang<sup>1</sup>; George Christ<sup>2</sup>; Mark R. Chance<sup>1</sup>; <sup>1</sup>Case Western Reserve University, Cleveland, OH; <sup>2</sup>Wake Forest University School of Medicine, Winston-Salem, NC
- MP 507 **Mass Spectrometric Analysis of Saliva Proteome;** Hongying Zhong<sup>1</sup>; Joseph Fernandez<sup>1</sup>; Linqi Zhang<sup>3</sup>; Daniel Malamud<sup>2</sup>; Haiteng Deng<sup>1</sup>; <sup>1</sup>The Rockefeller University, New York, NY; <sup>2</sup>NYU College of Dentistry, New York, NY; <sup>3</sup>Aaron Diamond AIDS Research Center, New York, NY
- MP 508 **Establishment of a Human Urinary Peptidome to Aid in Disease Biomarker Discovery;** David M. Good<sup>1</sup>; Petra Zürgbig<sup>2</sup>; Harald Mischak<sup>2</sup>; Joshua J. Coon<sup>1</sup>; <sup>1</sup>University of Wisconsin-Madison, Madison, WI; <sup>2</sup>Mosaiques Diagnostics & Therapeutics, Hanover, Germany
- MP 509 **Identification of Plasma Proteins Linking Metabolic Syndrome to Coronary Artery Disease by Quantitative Proteomics;** Jacob A. Galan<sup>1</sup>; Minjie Guo<sup>1</sup>; Kam To<sup>1</sup>; Michael Sturek<sup>2</sup>; W. Andy Tao<sup>1</sup>; <sup>1</sup>Purdue University, West Lafayette, IN; <sup>2</sup>Indiana University School of Medicine, Indianapolis, IN
- MP 510 **Candidate Biomarker Discovery in the Time Dependant Progression of a Mouse Model of Lung Fibrosis using Multiplex Proteomics Strategies;** Katherine Williams<sup>1</sup>; Christian R. Lombardo<sup>2</sup>; Kate Blease<sup>2</sup>; Bonny Chen<sup>2</sup>; Lilly Wong<sup>2</sup>; Garrett Hampton<sup>2</sup>; Christie Humter<sup>1</sup>; <sup>1</sup>Applied Biosystems, Foster City, CA; <sup>2</sup>Celgene Corporation, San Diego, CA
- MP 511 **Urinary Protein Nephrotoxicity Biomarkers – Discovery and Validation;** Charlotte C. Yu Ip; Raymond J. Gonzalez; Josef S. Ozer; Frank D. Sistare; William H. Schaefer; *Merck Research Laboratories, West Point, PA*
- MP 512 **Analysis of Covalent Adducts of Cytochrome C Arising from Nitration and Oxygen Radical Oxidation;** Jennifer R. Seal; John S. Wishnok; Steven R. Tannenbaum; *Massachusetts Institute of Technology, Cambridge, MA*
- MP 513 **A Mass Spectrometry-Based Strategy for Identifying Proteinase Activities and the Sequences of Their Proteolytic Products;** Sarah Robinson; Richard Niles; H. Ewa Witkowska; Kirsten Rittenbach; Scott Dixon; Steven Hall; Susan Fisher; Markus Hardt; *University of California at San Francisco, San Francisco, CA*
- MP 514 **Comparative Glycoproteomics Analysis for Canine Lymphoma and Bladder Cancer Using GIST, Lectin Selection and MALDI-TOF/TOF MS Profiling;** Christina Wilson<sup>1</sup>; Fred E. Regnier<sup>2</sup>; Deborah W. Knapp<sup>3</sup>; Stephen B. Hooser<sup>4</sup>; <sup>1</sup>Purdue Univ., Animal Disease Diagnostic Laboratory, West Lafayette, IN; <sup>2</sup>Purdue Univ., Dept. of Chemistry, West Lafayette, IN; <sup>3</sup>Purdue Univ., Dept. of Veterinary Clinical Science, West Lafayette, IN; <sup>4</sup>Purdue Univ., Dept. of Comparative Pathobiology, West Lafayette, IN

MONDAY POSTERS

POSTER SPACE

- MP 515 **IEF-Based Fractionation Strategies with MS for Characterizing Salivary Proteins;** Pinmanee Boonthueng; Prasanna Ramachandran; David T. Wong; Joseph A. Loo; *UCLA, Los Angeles, CA*
- MP 516 **Identification of a Degradation Marker Related to Plasma Conservation by 2D-Gel Electrophoresis and MALDI-TOF MS;** Florence Guérard<sup>1</sup>; Olivia Guerre<sup>1</sup>; Dominique Dernis<sup>2</sup>; Jean-Jacques Huart<sup>2</sup>; Christian Rolando<sup>1</sup>; <sup>1</sup>*Univ. des Science/Tech de Lille, Villeneuve d'Ascq, France*; <sup>2</sup>*Etablissement Francais du Sang, Nord-de-France, Lille, France*
- MP 517 **Proteomic Analysis of Human Skeletal Muscle by the Combination of 1-D Gel Electrophoresis and HPLC-ESI-MS/MS;** Zhengping Yi<sup>1</sup>; Charles Flynn<sup>1</sup>; Paul Langlais<sup>1</sup>; Susan T. Weintraub<sup>2</sup>; Lawrence Mandarino<sup>1</sup>; Kurt. Højlund<sup>1</sup>; <sup>1</sup>*Arizona state university, Tempe, AZ*; <sup>2</sup>*University of Texas Health Science Center, San Antonio, TX*
- MP 518 **Proteomics-Based Study of Inborn Errors of Metabolism. Investigation of Protein Disturbances in Hyperhomocysteinemia;** Brian Gilfix<sup>1</sup>; David Rosenblatt<sup>1</sup>; Amanda Loewy<sup>1</sup>; Robert Masse<sup>2</sup>; Mike Aguiar<sup>3</sup>; David Blank<sup>1</sup>; Hugh PJ Bennett<sup>3</sup>; Bernard F Gibbs<sup>3</sup>; <sup>1</sup>*Royal Victoria Hospital, MUHC, Montreal, Canada*; <sup>2</sup>*MDS Pharma Services, Montreal, Canada*; <sup>3</sup>*Sheldon Biotechnology Center, McGill University, Montreal, Canada*
- MP 519 **Biomarker Identification by SDS-PAGE and ESI-Ion Trap Mass Spectrometry from the Unfractionated Urine for the Diagnosis of Osteoporosis;** Hyun-Soo Choi; Ilyn L. Santos; Jinkyu Lim; *Kyungpook University, Daegu, South Korea*
- MP 520 **Proteinase 3 and Latent Matrix-metalloproteinase 9: Potential Biomarkers for Chronic Lung Transplant Rejection;** Yan Zhang; Marshall Hertz; Christine Wendt; Gary Nelsestuen; *University of Minnesota, Minneapolis, MN*
- MP 521 **Biomarker Discovery for Predicting Susceptibility to Age-Related Macular Degeneration and Monitoring Therapeutic Efficacy;** Jiayin Gu<sup>1</sup>; Xianquan Zhan<sup>1</sup>; John S Crabb<sup>1</sup>; Elisa Bala<sup>3</sup>; Kutralanathan Renganathan<sup>1</sup>; Xiaorong Gu<sup>1</sup>; Stephanie A Hagstrom<sup>1</sup>; Hilel Lewis<sup>1</sup>; Robert G Salomon<sup>2</sup>; John W Crabb<sup>1</sup>; the Cleveland AMD Study Group<sup>1</sup>; <sup>1</sup>*Cleveland Clinic, Cleveland, OH*; <sup>2</sup>*Case Western Reserve University, Cleveland, OH*; <sup>3</sup>*Louis Stokes VA Medical Center, Cleveland, OH*
- MP 522 **Limits of Quantitation for Low Abundant Proteins in Plasma by Targeted MS;** Hasmik Keshishian; Michael Burgess; Veronica Saenz-Vash; Eric Kuhn; Terri Addona; Steven A. Carr; *Broad Institute of MIT and Harvard, Cambridge, MA*
- MP 523 **Proteomic Analysis of Cytoplasmic Lipid Droplets Using MudPIT Identification of Fractionated Rat Liver;** Mark Lowenthal; *UCHSC, Aurora, CO*
- MP 524 **High Sensitivity Analysis of Urinary Desmosine and Isodesmosine Using Nano-LC/MS-MS;** Michel Boutin<sup>1</sup>; Kevin Bateman<sup>2</sup>; Pierre Thibault<sup>1</sup>; <sup>1</sup>*Institute for Research in Immunology and Cancer, Montreal, Canada*; <sup>2</sup>*Merck Frosst Center for Therapeutic Research, Kirkland, Canada*
- MP 525 **Mass Spectrometry Characterization of Urinary Prion Protein;** Ayuna Dagdanova<sup>1</sup>; Sergei A. Ilchenko<sup>2</sup>; Qiwei Yang<sup>1</sup>; Pierluigi Gambetti<sup>1</sup>; Shu G. Chen<sup>1</sup>; <sup>1</sup>*Pathology Department, Case Western Reserve Univ.,*

POSTER SPACE

- Cleveland, OH*; <sup>2</sup>*Center for Proteomics, Case Western Reserve Univ., Cleveland, OH*
- MP 526 **Differential Proteome Pattern Associated with Diabetic Serum Revealed by Integrated Multiple Dimensional Liquid Chromatography Mass Spectrometry;** Jie Dai; Rong-Xia Li; Su-Jun Li; Qing-Run Li; Rong Zeng; *Shanghai Institutes for Biological Sciences, Shanghai, China*
- MP 527 **Suction Blister Fluid As Potential Biological Matrix for Biomarker Proteins;** Jeroen Kool<sup>1</sup>; Léon Reubsaet<sup>1</sup>; Feikje Wesseldijk<sup>3</sup>; Raquel Maravilha<sup>1</sup>; Martijn Pinkse<sup>1</sup>; Clive D'Santos<sup>1</sup>; Jacobus van Hilten<sup>2</sup>; Freek Zijlstra<sup>3</sup>; Albert Heck<sup>1</sup>; <sup>1</sup>*Utrecht University, Sorbonnelaan 16, Utrecht, Netherlands*; <sup>2</sup>*Leiden University Medical Center, Leiden, The Netherlands*; <sup>3</sup>*Erasmus Medical Center, Rotterdam, The Netherlands*
- MP 528 **Evaluation of an iTRAQ Strategy for Biomarker Detection in Cerebrospinal Fluid;** Catherine A. Formolo; Tobey J. MacDonald; Brian R. Rood; Yetric Hathout; *Children's National Medical Center, Washington, DC*

PROTEOMICS: MEDICAL I  
529 - 549

- MP 529 **Unraveling the Metabolism of CNS-derived Apolipoprotein E Using Stable Isotopes and Tandem MS;** Kristin R Wildsmith; Kwasi G Mawuenyega; Karen R Browning; Guolin Wen; Randall J Bateman; *Washington University, St. Louis, MO*
- MP 530 **Quantitative Proteomic Analysis of Bruch's Membrane from AMD Donor Eyes using iTRAQ Technology and SCX Fractionation;** Xianglin Yuan; John S Crabb; Karen Shadrach; Xiaorong Gu; Joe G Hollyfield; John W Crabb; *Cleveland Clinic Foundation, Cleveland, Ohio*
- MP 531 **Quantitative Proteomic Analysis of Bruch's Membrane from AMD Donor Eyes using iTRAQ Technology and SDS-PAGE Fractionation;** Xiaorong Gu; John S. Crabb; Karen Shadrach; Xianglin Yuan; Joe G. Hollyfield ; John W. Crabb; *Cleveland Clininc Foundation, Cleveland, OH*
- MP 532 **Comparative Brain Membrane Proteome Analysis in Schizophrenia and Antipsychotic Drug Treatment using a Label Free LC-MS/MS Based Proteomic Profiling Approach;** Man KUAN Chan<sup>1</sup>; Dan Ma<sup>1</sup>; Lan Wang<sup>1</sup>; Sabrina Jahn<sup>1</sup>; Sabrina Schaefer<sup>1</sup>; Emanuel Schwarz<sup>1</sup>; Matthew Wayland<sup>1</sup>; Chris Hughes<sup>2</sup>; Jane Gartlon<sup>3</sup>; Peter Maycox<sup>3</sup>; Therese McKenna<sup>2</sup>; Sabine Bahn<sup>1</sup>; <sup>1</sup>*Institute of Biotechnology, Cambridge, United Kingdom*; <sup>2</sup>*Waters Corporation, Atlas Park, Manchester, United Kingdom*; <sup>3</sup>*Psychiatry CEDD, GlaxoSmithKline, Harlow, United Kingdom*
- MP 533 **Quantifying the Co-expression of ApoA-I Mutant Fin (ApoA-IFIN) and Normal ApoA-I in Transgenic Mice;** Michael J. Thomas; John S. Owen; Manish S. Bharadwaj; Shaila Bhat; Michael P. Samuel; Mary G. Sorci-Thomas; *WFU School of Medicine, Winston-Salem, NC*
- MP 534 **Effects of Mild Oxidative Stress on the Proteomes of Differentiated and Non-Differentiated C2C12 Mouse Muscle Cells;** Edgar A. Arriaga<sup>1</sup>; Matthias Mann<sup>2</sup>; Francesca Forner<sup>2</sup>; <sup>1</sup>*University of Minnesota, Minneapolis, MN*; <sup>2</sup>*Max Planck Institute, Martinsried, Germany*
- MP 535 **Quantitative Proteome Analysis of Embryo Implantation in FKBP52 KO and Progesterone**

MONDAY POSTERS

POSTER SPACE

- MP 536 **Treated Mice by Multivariable DIGE/MS; David B. Friedman**; Kristen Burnum; Corbin Whitwell; Susanne Tranguch; SK Dey; Richard M. Caprioli; *Vanderbilt University School of Medicine, Nashville, TN*
- MP 537 **Quantitative Determination of Red Blood Cell Partitioning of Peptide Compounds by a LC/MS/MS Assay; Xun Cheng**; JongSoo Hyun; Douglas L. Cole; Jing J. Zhang; *Affymax, Inc, Palo Alto, CA*
- MP 538 **Investigation of Early Embryogenesis using Shotgun Proteomics and Spectral Counts; Peggi M. Angel<sup>1</sup>; Lin Lin**<sup>3</sup>; Daniel B. Weatherly<sup>3</sup>; Ron Orlando<sup>1</sup>; <sup>1</sup>*Complex Carbohydrate Research Center, Athens, GA*; <sup>2</sup>*Center for Tropical and Emerging Global Diseases, Athens, GA*; <sup>3</sup>*BioInquire, LLC, Athens, GA*
- MP 539 **Stoichiometry of Proteins in the Sarcomere; Kenneth Parker<sup>1</sup>; Ronan Walsh**<sup>1</sup>; Bryan Krastins<sup>2</sup>; Mohammad Kian Salajegheh<sup>1</sup>; Anthony Amato<sup>1</sup>; David Sarracino<sup>2</sup>; Steven Greenberg<sup>1</sup>; <sup>1</sup>*Brigham and Women's Hospital, Boston, MA*; <sup>2</sup>*Harvard Partners Center for Genomics and Proteomic, Cambridge, MA*
- MP 540 **Determining the Molecular Basis of Behavior: A Global Quantitative Proteomic Based Approach Utilizing Metabolic Labeling with <sup>15</sup>N; Kathleen Grant**; Boris Tabakoff; Christine C. Wu; *UCDHSC, Aurora, CO*
- MP 541 **Tackling the Nitrosoproteome with S-FLOS: A Novel Method for Quantifying S-Nitrosylation Sites in Protein Extracts, Cell Lines and Tissue; Lakshmi Santhanam; Marjan Gucek; Tashalee R Brown; Sungwoo Ryoo; Christopher Lemmon; Lewis Romer; Artin A Shoukas; Dan E Berkowitz; Robert Cole**; *Johns Hopkins School of Medicine, Baltimore, MD*
- MP 542 **Quantitative Proteomic Analysis of Human Neural Stem Cell by Differentiation using Stable Isotope Labeling with Amino acid in Cell Cultures; Jeong Hwa Lee**<sup>1</sup>; Jin Young Kim<sup>1</sup>; Kun Wook Park<sup>1</sup>; Kun Cho<sup>1</sup>; Kyung Hee Byun<sup>2</sup>; Sung Min Ahn<sup>2</sup>; Bong Hee Lee<sup>2</sup>; Jong Shin Yoo<sup>1</sup>; <sup>1</sup>*Korea Basic Science Institute, Daejeon, South Korea*; <sup>2</sup>*Jeju National University, Jeju, South Korea*
- MP 543 **Quantitative Proteomics Profiling in Mitochondria of Mouse Skeletal Muscle Treated with Fatty Acids; Zohra Olumee-shabon**; Erica Reeves; Eric P. Hoffman; *Children's National Medical Center, Washington, DC*
- MP 544 **Proteomics of Acute Pancreatitis in Rat Rough Endoplasmic Reticulum; Xuequn Chen**; John Strahler; Maria Dolores Sans; John Williams; Philip Andrews; *The University of Michigan, Ann Arbor, MI*
- MP 545 **Utilizing Isobaric Tagging Reagents for Screening Cerebral Spinal Fluid Samples for Potential Alzheimer's Biomarkers; Steven Guertin<sup>1</sup>; Marjorie Minkoff**<sup>1</sup>; Matthew Willets<sup>1</sup>; Brian Williamson<sup>1</sup>; Baltazar Gomez-Mancilla<sup>2</sup>; Nelson Guerreiro<sup>2</sup>; <sup>1</sup>*Applied Biosystems, Framingham, MA*; <sup>2</sup>*Novartis Pharmaceuticals, Basel, Switzerland*
- MP 546 **Signaling at the Neuromuscular Junction through the Eyes of the Acetylcholine Receptor: a Triple-Condition SILAC Study; Helene L. Cardasis**; Matthew Friese; Steve Burden; Thomas A. Neubert; *New York University, New York, NY*
- MP 547 **Quantitative Analysis of Secreted Angiogenic Proteins During Hypoxia; Shama P. Mirza**; Molly C. Pellitteri-Hahn; Erika Winkler; Maria Warren; Dani Didier; Jack Littrell; Brian D. Halligan; Simon Twigger;

POSTER SPACE

- MP 547 **Andrew S. Greene ; Michael Olivier; *Medical College of Wisconsin, Milwaukee, WI***
- MP 548 **Relative Quantification of Osteocyte Proteins using GLaD Chemistry combined with MALDI-ToF Analysis and Online-LC ES-IT-ToF Analysis; Jessica Z. Bereszczak<sup>1</sup>; Nicoletta Bivi**<sup>2</sup>; Gianluca Tell<sup>2</sup>; Francesco L. Brancia<sup>1</sup>; <sup>1</sup>*Shimadzu Research Laboratory, Manchester, United Kingdom*; <sup>2</sup>*University of Udine, Udine, Italy*
- MP 549 **Decoding the Nitric Oxide-mediated Post-translational Modifications by the Label-free MS Differential Analysis Software – DeCyder™ MS; Zecong Gu**; Jonathan Kabakoff; Yang Shi; Dongdong Yao; Yuliang Ma; Stuart A. Lipton; *Burnham Institute for Medical Research, La Jolla, CA*
- MP 549 **Comparative Proteomic Analysis of Light Exposed and Unexposed Photoreceptor Rod Outer Segments by Proteolytic <sup>18</sup>O Labeling Strategy; Dagmar Hajkova<sup>1</sup>; Vikram Palamalai**<sup>1</sup>; Chandra Sekhar Rao<sup>1</sup>; Ruth M. Darrow<sup>2</sup>; Daniel T. Organisciak<sup>2</sup>; Masaru Miyagi<sup>1</sup>; <sup>1</sup>*Case Western Reserve University, Cleveland, OH*; <sup>2</sup>*Wright State University, Dayton, OH*

PROTEOMICS: NEW & IMPROVED METHODS I  
550 - 577

- MP 550 **A QTAX-based Tag-team Method to Characterize Protein Interaction Networks; Cornie Guerrero**; Jeff Jones; Yingying Yang; Peter Kaiser; Lan Huang; *UC Irvine, Santa Ana, CA*
- MP 551 **Selective Isolation of N-terminal Proteolytic Peptides using a Fluorous Enrichment Strategy and Its Application Towards the Identification of Protease Substrates; Fei Hong**; Hugo D Urbina; Ansgar Brock; Eric C Peters; *Genomics Institute of Novartis Research Foundation, San Diego, CA*
- MP 552 **Control of Charge State Distribution using a Hot Source-Induced Desolvation (HSID) Interface - Application to Discovery of Bacterial Virulence Factors; Devanand M. Pinto**<sup>1</sup>; Lisa Cousins<sup>2</sup>; Kenneth Chisholm<sup>1</sup>; Roger O. Ebanks<sup>1</sup>; <sup>1</sup>*NRC, Halifax, Canada*; <sup>2</sup>*Ionics Mass spectrometry Group, Toronto, Canada*
- MP 553 **Identification of Secreted Proteins from a Breast Cancer Cell Line by Metabolic Labeling and Extensive Fractionation; Jenny L Heidbrink**; Elizabeth G. Joseloff; Courtney Schatz; Yuhui Wang; Chad Danis; Steve M. Ruben; Tao He; *Celera, Rockville, MD*
- MP 554 **Multiplexed Kd Determination by Quantitative Chemoproteomics (QCP); Andreas Tebbe**; Jens Lamerz; Angelique Augustin; Everson Nogoceke; Peter Berndt; Nikolaos Berntenis; Hanno Langen; Axel Ducret; *F. Hoffmann-La Roche Ltd., Basel, Switzerland*
- MP 555 **Characterization of Monoclonal Antibodies: Surface Plasmon Resonance or High-mass MALDI Mass Spectrometry?; Claudia Bich<sup>1</sup>; Alexis Nazabal**<sup>2</sup>; Mike Scott<sup>3</sup>; Ryan Wenzel<sup>2</sup>; Renato Zenobi<sup>1</sup>; <sup>1</sup>*ETH Zurich, Zurich, Switzerland*; <sup>2</sup>*CovalX GmbH, Zurich, Switzerland*; <sup>3</sup>*Functional Genomic Center of Zurich, Zurich, Switzerland*
- MP 556 **Proteomic Analysis of Arabidopsis Plasma Membranes using an Improved Organic Solvent-based Extraction Strategy; Srijeet K. Mitra**; Benjamin T. Walters; Steven D. Clouse; Michael B. Goshe; *North Carolina State University, Raleigh, NC*
- MP 557 **Characterization of Organelles using Protein Correlation Profiling (PCP) combined with Stable Isotope Labeling by Amino Acids in Cell Culture**

MONDAY POSTERS

POSTER SPACE

- (SILAC); Lis Jakobsen; Jens S. Andersen; *CEBI, University of Southern Denmark, 5230 Odense M, Denmark*
- MP 558 **Hypothesis-Driven MRM Applied to Wide-Range Yeast Proteome Analysis**; Paola Picotti<sup>1</sup>; Vinzenz Lange<sup>1</sup>; Nichole King<sup>2</sup>; Ruedi Aebersold<sup>1</sup>; Bruno Doman<sup>1</sup>; <sup>1</sup>*Institute for Molecular Systems Biology, ETH Zuerich, Zuerich, Switzerland*; <sup>2</sup>*Institute for Systems Biology, Seattle, WA*
- MP 559 **Interrogating the Human Nucleus by Middle-Down Mass Spectrometry: A 2 Dimensional LC-FT-ICR-MS/MS Platform**; Michael T. Boyne II; Craig D. Wenger; Dana E. Robinson; Bryan A. Parks; Paul M. Thomas; Leonid Zamborg; Rich D. Leduc; Neil L. Kelleher; *University of Illinois, Urbana, IL*
- MP 560 **Identifying Protein-Protein Interactions with LC-MALDI/TOF/TOF and Cross-Linking Strategy**; Xiaoting Tang<sup>1</sup>; Haizhen Zhang<sup>1</sup>; Gerhard R. Munske<sup>1</sup>; Natalia L. Zakharova<sup>1</sup>; Nikola Tolic<sup>2</sup>; Gordon A. Anderson<sup>2</sup>; James E. Bruce<sup>1</sup>; <sup>1</sup>*Washington State University, Pullman, WA*; <sup>2</sup>*Pacific Northwest National Laboratory, Richland, WA*
- MP 561 **Deciphering the Dynamic Protein Interactions Using Quantitative Mass Spectrometry**; Lan Huang; Xiaorong Wang; *University of California, Irvine, CA*
- MP 562 **Comprehensive Proteomic Analysis of the Human Embryonic Stem Cell Microenvironment**; Sean C. Bendall<sup>1</sup>; J. Larry Campbell<sup>1</sup>; Paula Pittock<sup>1</sup>; Mick Bhatia<sup>2</sup>; Gilles A Lajoie<sup>1</sup>; <sup>1</sup>*University of Western Ontario, London, Canada*; <sup>2</sup>*McMaster University Cancer Stem Cell Institute, Hamilton, Canada*
- MP 563 **High Throughput and High Sensitivity Proteomic Analysis using Sub-Two Micro Particle Stationary Phase**; Denis Faubert<sup>1</sup>; Heng Jiang<sup>1</sup>; Marguerite Boulos<sup>1</sup>; Annie Bouchard<sup>2</sup>; Diane Forget<sup>2</sup>; Melanie Brault<sup>1</sup>; Benoit Coulombe<sup>1</sup>; <sup>1</sup>*Proteomics Discovery Platform of the IRCM, Montreal, Canada*; <sup>2</sup>*Gene Transcription Laboratory of the IRCM, Montreal, Canada*
- MP 564 **Proteomic Study of Changes in IRE1 Subcellular Location and Protein Profiles under ER Stress Using Density Based Separation and MALDI-MS/MS**; WenKui Lan<sup>1</sup>; Marc J. Horn<sup>1</sup>; Kathryn L. Lipson<sup>2</sup>; Fumihiko Urano<sup>1</sup>; Sun W. Tam<sup>3</sup>; <sup>1</sup>*Prospect Biosystems, LLC, Newark, NJ*; <sup>2</sup>*University of Massachusetts Medical School, Worcester, MA*; <sup>3</sup>*UMass Medical School Proteomics Consortium, Shrewsbury, MA*
- MP 565 **A New Approach to Monitor the Expression of Aldo-Keto Reductase Proteins in Mouse Tissues**; Shuyang Tu; Yan Ren; Wei Tong; Lei Yang; Ningzhi Xu; Siqi Liu; *Beijing Genomics Institute, CAS, Beijing, China*
- MP 566 **Comprehensive Expression Profiles For Targeted Identification of Histone Modifications and Its Implications for the Determination of Structure-Function Relationships**; Paul Drogaris; Hugo Wurtele; Kevin Eng; Alain Verreault; Pierre Thibault; *Université de Montréal, Montréal, Canada*
- MP 567 **The Mechanism of Folding Inhibition by Electrospray Additives to Enhance Dissociation of Large Protein Ions**; Honghai Jiang<sup>1</sup>; Xianglei Kong<sup>1</sup>; Kathrin Breuker<sup>2</sup>; Tadhg Begley<sup>1</sup>; Fred W. McLafferty<sup>1</sup>; <sup>1</sup>*Cornell University, Ithaca, NY*; <sup>2</sup>*University of Innsbruck, Innsbruck, Austria*
- MP 568 **Exploring Protein Complexes with Mass Spectrometry and Fluorescence Microscopy**

POSTER SPACE

- Techniques**; Changhui Deng; Andrew N. Krutchinsky; *Dept of Pharm Chem, UCSF, San Francisco, CA*
- MP 569 **SILAC in Cultured Primary Neurons: Application to BDNF Induced Phosphotyrosine Proteome Changes and Differential Protein Abundance of Postsynaptic Densities**; Daniel S. Spellman; Helene L. Cardasis; Bryn A. Jordan; Edward B. Ziff; Moses V. Chao; Thomas A. Neubert; *New York University School of Medicine, New York, NY*
- MP 570 **Relative and Absolute Stoichiometric Determination of the Transcriptional Cofactor Complex Mediator by Mass Spectral Analysis**; Andrew C. Paoletti; *Stowers Institute for Medical Research, Kansas City, MO*
- MP 571 **Combining “Bottom-up” and “Middle-down” Techniques for Better Coverage in Protein Characterization**; Dayin Lin; David Horn; *Agilent Technologies, Inc., Santa Clara, CA*
- MP 572 **An 8-plex iTRAQ Shotgun Proteomics Investigation of N2-fixing Heterocysts in the Cyanobacterium Nostoc sp. PCC 7120**; Saw Yen Ow<sup>1</sup>; Karin Stensjö<sup>2</sup>; Peter Lindblad<sup>2</sup>; Phillip Wright<sup>1</sup>; <sup>1</sup>*The University of Sheffield, Sheffield, United Kingdom*; <sup>2</sup>*Uppsala University, Uppsala, Sweden*
- MP 573 **Characterization of Zebrafish Cardiac Proteome by a Novel 2D HPLC Strategy Coupled with Q-TOF Tandem Mass Spectrometry**; Jian Zhang; Kevin A. Lanham; Richard E. Peterson; Warren Heideman; Lingjun Li; *The University of Wisconsin, Madison, WI*
- MP 574 **Fluorescent Probes and Mass Spectrometry Reveal How Cytomegalovirus Ensures Human Cell Growth during Infection**; Ileana M. Cristea<sup>1</sup>; Nathaniel J. Moorman<sup>2</sup>; Scott S. Terhune<sup>2</sup>; Michael P. Rout<sup>1</sup>; Thomas Shenk<sup>2</sup>; Brian T. Chait<sup>1</sup>; <sup>1</sup>*The Rockefeller University, New York, NY*; <sup>2</sup>*Princeton University, Princeton, NJ*
- MP 575 **Two-Dimensional Off-Line Separation Using High and Low pH Reversed-Phase for Proteomic Analysis of *Corynebacterium glutamicum* by 2D-LC MALDI MS/MS**; Maria Lasaosa; Nathanaël Delmotte; Katja Melchior; Christian G. Huber; Elmar Heinzle; Andreas Tholey; *University of Saarland, Saarbruecken, Germany*
- MP 576 **Proteomic Profiling and Substrate Diversity of Lysine Ubiquitination**; Guoqiang Xu; Samie R Jaffrey; *Pharmacology, Weill Medical College of Cornell Univ, New York, NY*
- MP 577 **The Utilization of Funnel-Skimmer Dissociation with Nanospray LC-FT-ICR Mass Spectrometry on Intact Proteins**; Jennifer S. Cobb<sup>1</sup>; Michael L. Easterling<sup>2</sup>; Jeffrey N. Agar<sup>1</sup>; <sup>1</sup>*Brandeis University, Waltham, MA*; <sup>2</sup>*Bruker Daltonics, Inc., Billerica, MA*

PROTEOMICS: SAMPLE PREPARATION & METHODS I (BIOFLUIDS)  
578 - 589

- MP 578 **An In-depth Look at Plasma Peptidome Stability in Different Blood Collection Tubes using LC-MALDI-MS**; David Craft; Jizu Yi; Craig A Gelfand; *BD Diagnostics, Franklin Lakes, NJ*
- MP 579 **High Throughput Proteomics LC/MS for Biomarker Validation**; Yixin Zhu; Peter Kent; Lori Ann Upton; Kerry Nugent; *Michrom Bioresources, Inc., Auburn, CA*
- MP 580 **Mass Spectrometry Analysis of Sialylated Glycopeptides Isolated from Serum Using Mixed Mode LC Fractionation and Affinity Extraction**

## MONDAY POSTERS

### POSTER SPACE

- Ying-qing Yu; Joomi Ahn; Petra Olivova; Martin Gilar; John Gebler; *Waters Corporation, Milford, MA*
- MP 581 **The Efficient Prefractionation Profiling of Low Molecular Weight Serum Proteins in Human Plasma;** Jong BOK Seo<sup>1</sup>; DongGuen Sul<sup>2</sup>; Hye Sook Kim<sup>1</sup>; Jin Hee Lee<sup>1</sup>; Gun Wook Park<sup>1</sup>; Jing Young Kim<sup>1</sup>; sohee Phark<sup>2</sup>; Myung Hee Nam<sup>1</sup>; <sup>1</sup>*Korea Basic Science Institute, Seoul, SOUTH KOREA*; <sup>2</sup>*Korea University, Seoul, South Korea*
- MP 582 **Evaluating Top-Down and Bottom-Up Proteomic Analysis Strategies for the Analysis of Saliva;** Jonathan L. Bundy; Michael S. Gardner; Megan D Rowland; Maureen K. Bunker; James L Stephenson, Jr; *Research Triangle Institute, RTP, NC*
- MP 583 **Validity of Diagnostic Protein Markers for Relapse Remitting Multiple Sclerosis is Dependent upon Sample Handling and Storage of patient CSF;** Christine Jelinek; David Wheeler; Avindra Nath; Carlos Pardo; Robert Cotter; *Johns Hopkins School of Medicine, Baltimore, MD*
- MP 584 **Endogenous Plasma Peptide Detection and Identification in the Rat by a Combination of Fractionation Methods and Mass Spectrometry;** Fabrice Bertile; Flavie Robert; Véronique Delval-Dubois; Sarah Sanglier; Christine Schaeffer; Alain Van Dorsselaer; *CNRS - IPHC-DSA - ULP, Strasbourg, France*

### POSTER SPACE

- MP 585 **Digging Deeper and Faster into Proteome by IgY-Immunoaffinity Fractionation;** Xiangming Fang<sup>1</sup>; Lei Huang<sup>1</sup>; Sergey Sikora<sup>1</sup>; Douglas Hinerfeld<sup>2</sup>; Sunny Tam<sup>2</sup>; Pierre Gagné<sup>3</sup>; Guy Poirier<sup>3</sup>; Chris Kusumoto<sup>4</sup>; Kimimichi Obata<sup>4</sup>; David Yang<sup>4</sup>; Wei-wei Zhang<sup>1</sup>; <sup>1</sup>*GenWay Biotech, Inc., San Diego, CA*; <sup>2</sup>*University of Massachusetts Medical School, Shrewsbury, MA*; <sup>3</sup>*Laval University, Québec City, Canada*; <sup>4</sup>*PSS Bio Instruments, Inc., Livermore, CA*
- MP 586 **Lectins as Low-Cost and High Throughput Options for Depletion of Abundant Serum Proteins;** Thomas W. Fuller; E. Ellen Schwegler; Michael A. Ward; Lisa H. Cazares; O. John Semmes; Richard R. Drake; *Eastern Virginia Medical School, Norfolk, VA*
- MP 587 **A Novel Method for the Quantitative Analysis of the Interstitial Fluid Proteome;** Paul J Skipp<sup>1</sup>; Erika P Parkinson<sup>1</sup>; Maja Aleksic<sup>2</sup>; Daniel J Scott<sup>2</sup>; C David O'Connor<sup>1</sup>; Geraldine Clough<sup>3</sup>; <sup>1</sup>*Centre for Proteomic Research, Univ of Southampton, Southampton, United Kingdom*; <sup>2</sup>*Safety & Environmental Assurance, Unilever, Bedford, United Kingdom*; <sup>3</sup>*School of Medicine, Univ of Southampton, Southampton, United Kingdom*
- MP 588 **Assessment Approach for Evaluating High Abundance Protein Depletion Methods for Cerebrospinal Fluid (CSF) Proteomic Analysis;** Kevin Shores; Daniel R. Knapp; *Medical University of South Carolina, Charleston, SC*
- MP 589 **Pre-Fractionation of Human Plasma Proteome without HPLC: pH Step Separation of Tryptic Peptides with SPE Cartridges;** Weixun Wang; Jun Man; Nathan A. Yates; Ronald C. Hendrickson; *Merck Research Labs, Rahway, NJ*

## TUESDAY POSTERS

### POSTER SPACE

7:30 – 8:00 am..... All Tuesday posters should be set  
 10:15 am – 2:30 pm.... All Tuesday poster authors should be present  
 11:45 am – 12:15 pm..... Lunch break for odd-numbered posters  
 12:15 – 12:45 pm ..... Lunch break for even-numbered posters  
 7:30 – 8:00 pm ..... Remove all Tuesday posters

Instrumentation: Ion Sources I.....	004 - 021
Instrumentation: New Concepts II.....	022 - 040
Ion Mobility Applications.....	041 - 058
Ion Molecule Reactions.....	059 - 072
Peptides: Fragmentation and Sequencing II.....	073 - 089
Environmental Analysis: Water.....	090 - 104
Polymers.....	105 - 131
LC/MS.....	132 - 146
Bioinformatics.....	147 - 177
Lipids: Structural Analysis.....	178 - 190
Carbohydrates and Oligosaccharides II.....	191 - 211
Metabolites (Endogenous): Targeted Analysis.....	212 - 223
Drug Metabolism: High Throughput.....	224 - 237
Drugs: Quantitation by LC/MS.....	238 - 251
Small Molecules: Pharma Focus.....	252 - 266
Peptides: Post Translational Modifications II.....	267 - 284
Imaging Applications: Proteomics.....	285 - 299
Proteomics Quantitative: Stable Isotope Labeling II.....	300 - 309
Proteomics: Label Free Quantitation.....	310 - 316
Proteomics: Quantitation.....	317 - 324
Protein Conformation II.....	325 - 349
Proteins: General.....	350 - 371
Proteins: Glycoproteins I.....	372 - 396
Proteins: Modified II.....	397 - 415
Proteins: Recombinant.....	416 - 433
Proteomics: Biomarkers II.....	434 - 463
Proteomics: Fundamental Studies.....	464 - 481
Proteomics: Fundamental Technique Comparison.....	482 - 492
Proteomics: New and Improved Methods II.....	493 - 514
Proteomics: Phosphorylation.....	515 - 526
Proteomics: Lower Organisms.....	527 - 546
Proteomics: Medical II.....	547 - 565
Proteomics: Sample Preparation and Methods (Non-Gel Based).....	566 - 583

<b>INSTRUMENTATION: ION SOURCES I</b>
<b>004 - 021</b>

TP 004	<b>Development of a Novel Dual Nebulizer Electro spray Ionization Source for Mass Calibration Reference Correction in Time-of-Flight Mass Spectrometry;</b> <u>Matthew Giardina</u> ; Viatcheslav Artaev; <i>LECO Corporation, St. Joseph, MI</i>
TP 005	<b>Laser Induced Acoustic Desorption/Electrospray Ionization/Mass Spectrometry (LIAD/ESI/MS) for the Detection of Synthetic Polymers and Proteins in Solids under Ambient Conditions;</b> <u>Sy-Chyi Cheng</u> ; Jentaie Shiea; <i>National Sun Yat-Sen University, Kaohsiung, Taiwan</i>
TP 006	<b>Evaluation of an Atmospheric Pressure Resistive Glass Ion Guide to Increase Ion Transfer Efficiency;</b>

### POSTER SPACE

TP 007	<u>Christopher Hilton</u> ; Marilyn Prieto; Richard Yost; <i>University of Florida, Gainesville, FL</i> <b>Evaluation of a Novel Vortex-Inducing Air Amplifier for Enhanced Atmospheric-Pressure Ion Source Performance;</b> <u>Marilyn Prieto</u> ; Christopher Hilton; Richard Yost; David Powell; <i>University of Florida, Gainesville, FL</i>
TP 008	<b>Effects of Matrix and Electrospray Solution Composition on Desorption and Ionization of Proteins in Electrospray-Assisted Laser Desorption Ionization Mass Spectrometry;</b> <u>Ya-Lin Ma</u> ; Min-Zong Huang; Jentaie Shiea; <i>National Sun Yat-Sen University, Kaohsiung, Taiwan</i>
TP 009	<b>Observation of the Large Dicobalt Dendrimer Complex on CSI-FT-ICR-MS;</b> <u>Kazunori Saito</u> <sup>1</sup> ; Hisashi Shimakoshi <sup>2</sup> ; Daisuke Higo <sup>1</sup> ; Shinichi Miki <sup>1</sup> ; Yoshihisa Sei <sup>3</sup> ; Kentaro Yamaguchi <sup>3</sup> ; Yoshio Hisaeda <sup>2</sup> ; <sup>1</sup> <i>Bruker Daltonics KK, Yokohama, Japan</i> ; <sup>2</sup> <i>Kyushu Univeristy, Fukuoka, Japan</i> ; <sup>3</sup> <i>Tokushima Bunri Univeristy, Sanuki, Japan</i>
TP 010	<b>Detecting Organic Compounds Dissolved in Volatile Organic Solvents and Continuously Monitoring Chemical Reactions by Ambient Liquid Mass Spectrometry (ALMS);</b> <u>Jingyueh Jeng</u> <sup>2</sup> ; Cheng-Hui Yuan <sup>1</sup> ; Jentaie Shiea <sup>1</sup> ; <sup>1</sup> <i>National Sun Yat-Sen University, Kaohsiung, Taiwan</i> ; <sup>2</sup> <i>Cha-Nan University of Pharmacy and Science, Tinan, Taiwan</i>
TP 011	<b>A Microchip APPI Device for Combining GC or LC with MS;</b> <u>Markus Haapala</u> <sup>1</sup> ; Laura Luosujärvi <sup>1</sup> ; Ville Saarela <sup>2</sup> ; Tapio Kotiaho <sup>1</sup> ; Raimo Ketola <sup>1</sup> ; Sami Franssila <sup>2</sup> ; Risto Kostiaainen <sup>1</sup> ; <sup>1</sup> <i>University of Helsinki, Helsinki, Finland</i> ; <sup>2</sup> <i>Helsinki University of Technology, Espoo, Finland</i>
TP 012	<b>Porous Alumina Surface as a Dual Ionization Laser Desorption Ionization (LDI)-Desorption Electro spray Ionization (DESI) Platform for Increased Peptide Coverage;</b> <u>Ranu Nayak</u> <sup>1</sup> ; Ashis K. Sen <sup>2</sup> ; Jian Liu <sup>1</sup> ; Daniel R. Knapp <sup>1</sup> ; <sup>1</sup> <i>Medical University of South Carolina, Charleston, SC</i> ; <sup>2</sup> <i>University of South Carolina, Columbia, SC</i>
TP 013	<b>Electrospray-Assisted Laser Desorption Ionization (ELDI) and Tandem Mass Spectrometry for Proteomic Studies;</b> <u>Ivory X. Peng</u> <sup>1</sup> ; Jentaie Shiea <sup>2</sup> ; Joseph A. Loo <sup>1</sup> ; <sup>1</sup> <i>UCLA, Los Angeles, CA</i> ; <sup>2</sup> <i>National Sun Yat-Sen University, Kaohsiung, Taiwan</i>
TP 014	<b>Field-Free Atmospheric Nebulizers and Discharges;</b> <u>Edward W. Sheehan</u> ; Ross C Willoughby; <i>Chem-Space Associates, Inc., Pittsburgh, PA</i>
TP 015	<b>Development and Testing of a Computer-Controlled Dual Polarity Dual nanoESI Source on a Quadrupole Ion Trap for Ion/Ion Reactions;</b> <u>Ryan M. Danell</u> <sup>2</sup> ; Matthew J. Myer <sup>1</sup> ; Allison S. Danell <sup>1</sup> ; <sup>1</sup> <i>East Carolina University, Greenville, NC</i> ; <sup>2</sup> <i>Danell Consulting, Greenville, NC</i>
TP 016	<b>A New Chip-Based ESI Device Fabricated by Injection Moulding;</b> <u>Laura A Croasdel</u> ; Leonard A. Dillon; Peter R. Fielden; Nick J. Goddard; Victoria N. Stone; C. L. Paul Thomas; <i>The University of Manchester, Manchester, United Kingdom</i>
TP 017	<b>Electrospray Efficiency from the Nanoflow to the High Flow Regime;</b> <u>Hassan Javaheri</u> ; Bradley B. Schneider; Thomas R. Covey; <i>MDS Sciex, Concord, Canada</i>
TP 018	<b>Ambient Liquid Mass Spectrometry (ALMS): Detection of Native Protein Ions Directly from</b>

## TUESDAY POSTERS

POSTER SPACE

- Liquids and Biological Fluids under Ambient Conditions;** Cheng-Hui Yuan; Ya-Lin Ma; Jentaie Shiea; *National Sun Yat-Sen University, Kaohsiung, Taiwan*
- TP 019 **A New Approach to Atomization of an Electrospray Ion Source;** Charles Jolliffe<sup>1</sup>; Lisa M. Cousins<sup>1</sup>; Gholamreza Javahery<sup>1</sup>; Seguei Savtchenko<sup>1</sup>; Nasser Ashgriz<sup>2</sup>; <sup>1</sup>IONICS Mass Spec Group, Inc., Concord, Canada; <sup>2</sup>University of Toronto, Toronto, Ontario
- TP 020 **Micropillar Array Electrospray Chip for Analysis of Biomolecules;** Teemu J. Nissilä<sup>1</sup>; Lauri Sainiemi<sup>2</sup>; Tiina Sikanen<sup>1</sup>; Tapio Kotiaho<sup>1</sup>; Sami Franssila<sup>2</sup>; Risto Kostiaainen<sup>1</sup>; Raimo A. Ketola<sup>1</sup>; <sup>1</sup>University of Helsinki, Helsinki, Finland; <sup>2</sup>Helsinki University of Technology, Helsinki, Finland
- TP 021 **The Effect of Ionspray Voltage, Flow Rate and Solvent Composition on an External Porous Polymer Monolith Electrospray Interface's Signal Stability;** Stephen S.H. Lee; Richard D. Oleschuk; *Queen's University, Kingston, Canada*

### INSTRUMENTATION: NEW CONCEPTS II 022 - 040

- TP 022 **The Ion Funnel Interface for MALDI Ion Source Operating at Intermediate Pressure;** Vadym Berkout; *MassTech, Inc., Columbia, MD*
- TP 023 **Top Down de novo sequencing using Electron Capture Dissociation in Radio Frequency Ion Trap;** Hiroyuki Satake<sup>1</sup>; Hideki Hasegawa<sup>1</sup>; Atsumu Hirabayashi<sup>1</sup>; Yuichiro Hashimoto<sup>1</sup>; Takashi Baba<sup>1</sup>; Izumi Waki<sup>1</sup>; Katsuyoshi Masuda<sup>2</sup>; <sup>1</sup>Central Research Laboratory, Hitachi Ltd., Tokyo, Japan; <sup>2</sup>Suntory Institute for Bioorganic Research, Osaka, Japan
- TP 024 **Reactive and Soft Landing of Horseradish Peroxidase Cations on in-situ Plasma Treated Dry Metal Surfaces;** Matthew J. Diener; Michael Volny; William T. Elam; Frantisek Turecek; *University of Washington, Seattle, WA*
- TP 025 **Kinetics of Desorption of Protonated Peptides Soft Landed onto Self-Assembled Monolayer Surfaces (SAMs);** Omar Hadjar; Jean H. Futrell; Julia Laskin; *PNNL, Richland, WA*
- TP 026 **Development of a Handheld Gas-Phase Sample Collection System for Use with a Fieldable Mass Spectrometer;** John Grossenbacher; Adam Keil; J. Mitchell Wells; Garth Patterson; Mark Gregory; Matthew Briscoe; Jason Springston; Dennis Barket, Jr; *Griffin Analytical Tech., LLC, West Lafayette, IN*
- TP 027 **Ion Source for Doping of Superfluid Helium Nanodroplets with a High Flux of Low Kinetic Energy Alkali Cations;** Mark E. Ridgeway<sup>1</sup>; Travis M. Falconer<sup>1</sup>; Raymond J. Bemish<sup>2</sup>; Gary L. Glish<sup>1</sup>; <sup>1</sup>University of North Carolina, Chapel Hill, NC; <sup>2</sup>Pfizer Inc., Groton, CT
- TP 028 **Using Superfluid Helium Nanodroplets to Form Ultracold Ions;** Travis M. Falconer<sup>1</sup>; Mark E. Ridgeway<sup>1</sup>; Raymond J. Bemish<sup>2</sup>; Gary L. Glish<sup>1</sup>; <sup>1</sup>University of North Carolina, Chapel Hill, NC; <sup>2</sup>Pfizer, Inc., Groton, CT
- TP 029 **Inline Electrospray Current Conductivity Detection for Characterization of Mobile Phase Composition and Gradient Delay;** Adam W Perala; Gary A. Valaskovic; *New Objective, Inc., Woburn, MA*
- TP 030 **High-Throughput Improvements for Preparative Mass Spectrometry;** Qingyu Song; Scott A Smith;

POSTER SPACE

- Zheng Ouyang; R.G. Cooks; *Purdue University, West Lafayette, IN*
- TP 031 **Surface-Ionization Mass Spectrometry of Pesticides of Quaternary Ammonium Salts on the Basis of Dipyrindyle Derivatives;** Usman Khasanov<sup>1</sup>; Utkur Rasulev<sup>1</sup>; Dilshodbek Usmanov<sup>1</sup>; Aviv Amirav<sup>2</sup>; <sup>1</sup>Arifov Institute of Electronics, Tashkent, Uzbekistan; <sup>2</sup>Tel Aviv University, Tel Aviv, Israel
- TP 032 **Surface Roughness Effects on Dimensionally-Scaled Ion Traps;** Wei Xu; Meng Yu; Zheng Ouyang; Graham R. Cooks; William Chappell; *Purdue University, West Lafayette, IN*
- TP 033 **Development of an Ion Trap/Orthogonal-TOF Mass Spectrometer for UV Photodissociation of Biomolecules;** Tae-young Kim; James P. Reilly; *Indiana University, Bloomington, IN*
- TP 034 **Multi-Dimensional Mass Spectrometry using a Linear Ion Trap with Mass-Selective Axial Ejection Capability;** Yuichiro Hashimoto; Masuyuki Sugiyama; Hideki Hasegawa; *Hitachi, Ltd, Central Research Lab, Kokubunji, Tokyo, Japan*
- TP 035 **Reactive and Soft Landing of Polyatomic Hyperthermal Ions on Plasma-treated Metal Surfaces;** Michael Volny; Karl E. Jackson; W. Tim Elam; Frantisek Turecek; *University of Washington, Seattle, WA*
- TP 036 **A Novel Interface for Ion Focusing at Elevated Pressures Based on the Tripole RF Ion Guide;** Alexander S. Misharin; Eugene Moskovets; Chaminda M. Gamage; Vladimir M. Doroshenko; Andrey N. Vilkov; *MassTech, Inc., Columbia, MD*
- TP 037 **Mini 11 Handheld Mass Spectrometer with an Atmospheric Pressure Interface and a Glow Discharge Source;** Liang Gao<sup>1</sup>; Xinzhao Huang<sup>1</sup>; Ray S. Milks<sup>1</sup>; Jason S. Duncan<sup>1</sup>; Bob K. Schoder<sup>2</sup>; R. Graham Cooks<sup>1</sup>; Zheng Ouyang<sup>1</sup>; <sup>1</sup>Purdue University, West Lafayette, IN; <sup>2</sup>Creare Inc., Hanover, NH
- TP 038 **Calibration Methods and Recent Deployments of a Membrane Introduction Underwater Mass Spectrometer;** Ryan J. Bell<sup>1</sup>; Strawn K. Toler<sup>2</sup>; R. Timothy Short<sup>3</sup>; Robert H. Byrne<sup>1</sup>; <sup>1</sup>College of Marine Science, St Petersburg, FL; <sup>2</sup>Center for Ocean Technology, St Petersburg, FL; <sup>3</sup>SRI-St. Petersburg, St. Petersburg, FL
- TP 039 **Bipolar Ion Detector with Enhanced Sensitivity by Sequential Conversion Reactions;** Ming-Hsin Li; Shan-Ting Tsai; Chung-Hsuan Chen; Yi-Sheng Wang; *Academia Sinica, Taipei, Taiwan*
- TP 040 **Dual-Source Mass Spectrometer with MALDI-LIT-ESI Configuration;** Scott A. Smith; Thomas A. Blake; Demian R. Ifa; R. Graham Cooks; Zheng Ouyang; *Department of Chemistry, Purdue University, West Lafayette, IN*

### ION MOBILITY APPLICATIONS 041 - 058

- TP 041 **Ion Mobility - Mass Spectrometry as a Tool for Structural Investigation of High m/z Species;** Iain Campuzano<sup>1</sup>; Kevin Giles<sup>1</sup>; James Langridge<sup>1</sup>; Albert Heck<sup>2</sup>; Cees Versluis<sup>2</sup>; <sup>1</sup>Waters Corporation, Manchester, United Kingdom; <sup>2</sup>Utrecht University, Utrecht, Netherlands
- TP 042 **FAIMS/MS Characterization of Insecticides and Repellents used to Protect Deployed Military Personnel from Insect-Borne Diseases;** Erick Molina; *University of Florida, Gainesville, FL*

## TUESDAY POSTERS

### POSTER SPACE

- TP 043 **Improving Peptide/Protein Identification with High-Resolution Ion Mobility-Mass Spectrometry Techniques;** Brent Williams<sup>1</sup>; Stephen Valentine<sup>1</sup>; Adam Culbertson<sup>1</sup>; Stormy Koeniger<sup>2</sup>; Xiaoyun Liu<sup>2</sup>; Ruwan T. Kurulugama<sup>2</sup>; S. Sevugarajan<sup>2</sup>; David E. Clemmer<sup>2</sup>; Stephen Naylor<sup>1</sup>; <sup>1</sup>*Predictive Physiology and Medicine, Inc., Bloomington, IN;* <sup>2</sup>*Indiana University, Bloomington, IN*
- TP 044 **Oscillations of Chiral Preference in Proline Clusters;** Sunnie Myung<sup>2</sup>; Patrick K. Lorton<sup>1</sup>; Stormy L. Koeniger<sup>3</sup>; Manolo D. Plasencia<sup>1</sup>; Ryan R. Julian<sup>4</sup>; Mu-Hyun Baik<sup>1</sup>; David E. Clemmer<sup>1</sup>; <sup>1</sup>*Department of Chemistry at Indiana University, Bloomington, IN;* <sup>2</sup>*Rockefeller University, NY, NY;* <sup>3</sup>*Abbott Laboratories, Abbott Park, Illinois;* <sup>4</sup>*Department of UC Riverside, Riverside, CA*
- TP 045 **Pushing LDI-IM-oTOF Interface to its Limits: Theoretical and Experimental Ionic Cluster Studies using Selective Collisional-energy Transfer;** F. A. Fernandez-Lima<sup>1</sup>; C. Becker<sup>1</sup>; W. Sun<sup>1</sup>; K. Gillig<sup>1</sup>; M. Chaer-Nascimento<sup>2</sup>; D.H. Russell<sup>1</sup>; <sup>1</sup>*Laboratory for Biological Mass Spectrometry, College Station, TX;* <sup>2</sup>*Departamento de Quimica- Fisica, UFRJ, Rio de Janeiro, Brasil*
- TP 046 **Separation and Identification of Chlorinated Phenols Using Liquid Chromatography with Ion Mobility Spectrometry;** Fatkhulla Tadjimukhamedov<sup>1</sup>; Wolfgang Mueller<sup>1</sup>; Dimitrios Papanastasiou<sup>1</sup>; Hermann Wollnik<sup>2</sup>; Gary Eiceman<sup>1</sup>; <sup>1</sup>*New Mexico State University, Las Cruces, NM;* <sup>2</sup>*Shimadzu Corporation, Kyoto, Japan*
- TP 047 **An Investigation of Protein Therapeutics Including Antibodies and Antibody Conjugates with Ion Mobility Spectrometry;** Bruce Andrien<sup>1</sup>; Rekha Patel<sup>1</sup>; Lynellen Willard<sup>1</sup>; Rachael Alford<sup>1</sup>; Phillip Tan<sup>2</sup>; <sup>1</sup>*Alexion Pharmaceuticals, Chesire, CT;* <sup>2</sup>*TSI Incorporated, Shoreview, MN*
- TP 048 **Separation of Post-Translationally Modified and Analogous Tryptic Peptide Ions by High-Field Asymmetric-Waveform Ion Mobility/ Mass Spectrometry;** Jennifer A. Garrett<sup>1</sup>; Christopher K. Hilton<sup>1</sup>; Matthew J. Pollard<sup>2</sup>; Herbert H. Hill, Jr.<sup>2</sup>; Richard A. Yost<sup>1</sup>; <sup>1</sup>*University of Florida, Gainesville, FL;* <sup>2</sup>*Washington State University, Pullman, WA*
- TP 049
- TP 050 **Simultaneous Glycomic and Proteomic Strategies using Structural Mass Spectrometry;** Larissa S. Fenn; John A. McLean; *Vanderbilt University, Nashville, TN*
- TP 051 **Structural Characterization of Pegylated Protein Therapeutics using Ion Mobility Time-of-flight Mass Spectrometry and Ion/Molecule Chemistry;** Paul Schnier; Dhanashri Bagal; Ryan Holder; Heidi Zhang; Jifeng Zhang; *Amgen, Thousand Oaks, CA*
- TP 052 **Evaluating Gas Phase Structure: Coupled H/D Exchange-Ion Mobility Mass Spectrometry;** Christopher Becker; Lei Tao; Yiqun Huang; David Russell; *Texas A&M University, College Station, TX*
- TP 053 **Stoichiometry of Antibody Aggregates and Complexes Measured by MacroIon Mobility Spectrometry (IMS);** Louissette Basa<sup>1</sup>; Katherine Lancaster<sup>1</sup>; Bao-jen Shyong<sup>1</sup>; Phillip Tan<sup>2</sup>; Viswanatham Katta<sup>1</sup>; <sup>1</sup>*Genentech, Inc., South San Francisco, CA;* <sup>2</sup>*TSI, Inc, Shoreview, MN*
- TP 054 **Study of Lipids in Tissues by Ion Mobility Time-Of-Flight Mass Spectrometry;** Michael V. Ugarov<sup>1</sup>; Thomas F. Egan<sup>1</sup>; J. Albert Schultz<sup>1</sup>; Larissa S. Fenn<sup>2</sup>;

### POSTER SPACE

- Michal Kliman<sup>2</sup>; John A. McLean<sup>2</sup>; Shelley N. Jackson<sup>3</sup>; Hay-Yan J. Wang<sup>3</sup>; Amina S. Woods<sup>3</sup>; <sup>1</sup>*Ionwerks, Houston, TX;* <sup>2</sup>*Vanderbilt University, Nashville, TN;* <sup>3</sup>*NIDA IRP, Baltimore, MD*
- TP 055 **Proteomic Coverage Comparison of On and Offline LC-IMS-MS with Traditional LC-MS Platforms;** Erin Shammel Baker; Brian H. Clowers; Keqi Tang; Eric Livesay; Daniel Orton; William Danielson; Deep Jaitly; Anoop Mayampurath; Fumin Li; Mikhail Belov; Richard D. Smith; *PNNL, Richland, WA*
- TP 056 **Structural Studies of Small Molecule Radical Cations using a Variable Temperature Ion Mobility Apparatus;** Jody C. May; Ryan C. Blase; Kent J. Gillig; David H. Russell; *Texas A&M University, College Station, TX*
- TP 057 **Ion Mobility-Mass Spectrometry: An aid to Hemoglobin Variant Identification;** Jonathan P Williams<sup>1</sup>; James H Scrivens<sup>1</sup>; Kevin Giles<sup>2</sup>; Brian N Green<sup>2</sup>; Robert H Bateman<sup>2</sup>; <sup>1</sup>*university of warwick, coventry, United Kingdom;* <sup>2</sup>*Waters, Manchester, UK*
- TP 058 **Separation of Ligand-Coordinated Carbohydrate Isomers by Ambient Pressure Ion Mobility (Time-of-flight) Mass Spectrometry;** Maolei Harry Zhu<sup>1</sup>; Brad Bendiak<sup>2</sup>; Prabha Dwivedi<sup>1</sup>; Kim Kaplan<sup>1</sup>; Mathew Pollard<sup>1</sup>; Herbert H. Hill<sup>1</sup>; <sup>1</sup>*Washington State University, Pullman, WA;* <sup>2</sup>*Health Sciences Center, University of Colorado, Denver, CO*

### ION MOLECULE REACTIONS 059 - 072

- TP 059 **Testing Molecular Wire Conductivity by Tandem Mass Spectrometry;** Karen E. Joyce<sup>1</sup>; Meng Lu<sup>2</sup>; Ronald J. Wysocki Jr.<sup>1</sup>; James M. Tour<sup>2</sup>; Vicki H. Wysocki<sup>1</sup>; <sup>1</sup>*University of Arizona, Tucson, AZ;* <sup>2</sup>*Rice University, Houston, TX*
- TP 060 **Investigation of H<sub>2</sub>O and O<sub>2</sub> Addition to Gas-phase Acetonitrile-coordinated Vanadyl-halide Cations;** Christopher M. Leavitt<sup>1</sup>; Huanani M. Thomas<sup>2</sup>; Gary S. Groenewold<sup>3</sup>; Garold Gresham<sup>3</sup>; Carol A. Deakyn<sup>2</sup>; Michael J. Van Stipdonk<sup>1</sup>; <sup>1</sup>*Wichita State University, Wichita, KS;* <sup>2</sup>*University of Missouri, Columbia, MO;* <sup>3</sup>*Idaho National Laboratory, Idaho Falls, ID*
- TP 061 **Cluster Ions as Reagent Species in Ion-Ion Reactions with Multiply-charged Biomolecules;** Jeremiah Bowers; Brittany D.M. Hodges; Scott A. McLuckey; *Purdue University, West Lafayette, IN*
- TP 062 **The Study of para-Benzynes via Gas-Phase Ion-Molecule Reactions in a Fourier-Transform Ion Cyclotron Resonance Mass Spectrometer;** Lindsey M. Kirkpatrick; Hilikka I. Kenttamaa; *Purdue University, West Lafayette, IN*
- TP 063 **The Influence of a Hydroxy Substituent on the Reactivity of the 2,4,6-Tridehydropyridinium Ion;** Bartłomiej J. Jankiewicz; John J. Nash; Hilikka I. Kenttamaa; *Purdue University, West Lafayette, IN*
- TP 064 **Reactivity of Cationic Metal-Aromatic/Cyclic Clusters;** Gregory K. Koyanagi; Diethard K. Bohme; *York University, Toronto, Canada*
- TP 065 **H/D Exchange of Deprotonated Amino Acids and Peptides;** Zhixin Tian; Steven R. Kass; *Department of chemistry, University of Minnesota, Minneapolis, MN*
- TP 066 **Using Structurally Diagnostic Fragment Ions to Distinguish Constitutional Isomers by MS<sup>2</sup>: The case of  $\alpha$ -acylnaphthones and  $\beta$ -acylnaphthones;** Mario Benassi Neto; Marcos N. Eberlin; *ThomSON Mass Spectrometry Laboratory - UNICAMP, Campinas, Brazil*



## TUESDAY POSTERS

### POSTER SPACE

- TP 067 **Reactivity and Kinetics of meta-bis-allylphenyl anion;** Matthew Lenington; Paul G. Wenthold; *Purdue University, West Lafayette, IN*
- TP 068 **Chemical Noise Reduction in Mass Spectrometry using Selective Ion-Molecule Reactions;** Michael J. Y. Jarvis; Gregory K. Koyanagi; Diethard K. Bohme; *York University, Toronto, Canada*
- TP 069 **Application of Gas-Phase Ion-Molecule Reactions in Mass Spectrometric Identification of the Functionalities in Amino Acids;** Sen Li; Mingkun Fu; Hilikka I. Kenttämää; *Purdue University, West Lafayette, IN*
- TP 070 **Identification of the Amino Functional Group in Protonated Pre-derivatized Analytes by Mass Spectrometry;** Karina Campbell<sup>1</sup>; Sen Li<sup>1</sup>; Jennifer Reece<sup>1</sup>; Hilikka Kenttämää<sup>1</sup>; Brian Winger<sup>2</sup>; <sup>1</sup>*Purdue University, West Lafayette, IN*; <sup>2</sup>*Eli Lilly & Company, Indianapolis, IN*
- TP 071 **Gas-phase Reactions of Phenyl Radicals and Biradicals with Trinucleotides in an FT-ICR Mass Spectrometry;** Zhicheng Jin; Linan Yang; Nishi Rochell; Hilikka I Kenttämää; *Purdue University, West Lafayette, IN*
- TP 072 **Mixed Silver/Copper Clusters Mediate C-X Bond Activation;** George N. Khairallah; Tom Waters; Richard AJ O'Hair; *BIO21 Institute, The University of Melbourne, Melbourne, Australia*

### PEPTIDES: FRAGMENTATION & SEQUENCING II 073 - 089

- TP 073 **Influence of a 4-aminomethylbenzoic Acid Residue on Competitive Fragmentation Pathways during CID of Metal Cationized Peptides;** Sandra Osburn; Erach Talaty; Sila Ochola; Michael J. Van stipdonk; *Wichita State University, Wichita, KS*
- TP 074 **Multiple-Stage Tandem MS of Isotope Labeled Leucine Enkephalin;** Travis J. Cooper; Michael J. Van Stipdonk; *Wichita State University, Wichita, KS*
- TP 075 **Photodissociation of Peptides in a Commercial TOF-TOF Instrument with 157 nm Light;** Liangyi Zhang; James P. Reilly; *Indiana university, Bloomington, IN*
- TP 076 **The Gas-Phase Neutral Loss of H<sub>3</sub>PO<sub>4</sub> from Protonated Phosphopeptides Does NOT Predominantly Occur via a Charge Remote  $\beta$ -elimination Mechanism;** Amanda M. Palumbo; Gavin E. Reid; *Michigan State University, East Lansing, MI*
- TP 077 **The "Proline-Effect" in Peptide Fragmentation;** Christian Bleiholder<sup>1</sup>; Alex G. Harrison<sup>2</sup>; Sandor Suhai<sup>1</sup>; Bela Paizs<sup>1</sup>; <sup>1</sup>*German Cancer Research Center, Heidelberg, Germany*; <sup>2</sup>*University of Toronto, Toronto, Canada*
- TP 078 **Gold Cation Switching Ion-Ion Reactions: The Role of Sulfur Containing Residues in Fragmentations of Polypeptide Ions;** Brittany D.M. Hodges; Xiaorong Liang; Scott A. McLuckey; *Purdue University, West Lafayette, IN*
- TP 079 **MALDI-TOF/RTOF Mass Spectrometry of Peptides at Collision Energies of 20kV and 2kV – Differences in Ion Intensities and/or Fragment Types;** Martina Marchetti<sup>1</sup>; Pavel Rehulka<sup>2</sup>; Josef Chmelik<sup>2</sup>; Emmanuel Raptakis<sup>3</sup>; Günter Allmaier<sup>1</sup>; <sup>1</sup>*Vienna University of Technology, Vienna, Austria*; <sup>2</sup>*Academy of Sciences of the Czech Republic, Brno, Czech Republic*; <sup>3</sup>*Shimadzu Biotech-Kratos Analytical, Manchester, UK*
- TP 080 **MS/MS Simplification by Ultraviolet Photodissociation of Chromogenically Derivatized**

### POSTER SPACE

- Peptides in a Quadrupole Ion Trap;** Jeffrey Wilson; Jennifer Brodbelt; *University of Texas at Austin, Austin, TX*
- TP 081 **Sequence Scrambling Pathways of Protonated Peptides Upon CID;** Christian Bleiholder<sup>1</sup>; Travis Cooper<sup>2</sup>; Jerod Groves<sup>2</sup>; Alex B. Young<sup>3</sup>; Sándor Suhai<sup>1</sup>; Michael Van Stipdonk<sup>2</sup>; Alex G. Harrison<sup>3</sup>; Bela Paizs<sup>1</sup>; <sup>1</sup>*German Cancer Research Center, Heidelberg, Germany*; <sup>2</sup>*Wichita State University, Wichita, KS*; <sup>3</sup>*University of Toronto, Toronto, Canada*
- TP 082 **Mechanistic Studies on the Gas-phase Fragmentation Reactions of Oxidative Peptide Modifications and Their Effect on MS/MS Database Search Scores;** Jennifer M. Froelich; Gavin E. Reid; *Michigan State University, East Lansing, MI*
- TP 083 **Is a Charge Tag Really Fixed?;** Yi He; James P. Reilly; *Indiana University, Bloomington, IN*
- TP 084 **A Contribution of Ion Mobility Mass Spectrometry to the Investigation of Peptide Fragment Ion Structure;** Isabel Riba<sup>1</sup>; Kevin Giles<sup>2</sup>; Simon J Gaskell<sup>1</sup>; <sup>1</sup>*University of Manchester, Manchester, United Kingdom*; <sup>2</sup>*Waters Corp., Manchester, UK*
- TP 085 **Recognition of Aspartic Acid Isomeric Forms in "Alzheimer Peptide" using AP MALDI;** Aleksey S. Kononikhin<sup>2</sup>; Igor A. Popov<sup>1</sup>; Sergey A. Kozin<sup>3</sup>; Eugene Nikolaev<sup>1</sup>; <sup>1</sup>*The Institute for Energy Problems of Chemical Phys, Moscow, Russian Federation*; <sup>2</sup>*Institute for Biochemical Physics, Moscow, Russia*; <sup>3</sup>*Institute for Biomedical Chemistry, Moscow, Russia*
- TP 086 **[c+2H]<sup>+</sup> Ions and [z-H]<sup>+</sup> Ions in the Fragmentations of Radical Cations of Oligopeptides Containing a Tyrosine or Tryptophan Residue;** Yuyong Ke; Andy C. K. Siu; Alan C. Hopkinson; K.W. Michael Siu; *CRMS/York University, Toronto, Canada*
- TP 087 **C-Terminal Fragmentation of Singly-Protonated, Arginine-Containing Peptides: Metastable Loss of C-Terminal Histidine, Lysine, and Arginine Characterized by MALDI-FTMS;** Elizabeth A. Stemmler; Christopher R. Cashman; Patsy S. Dickinson; *Bowdoin College, Brunswick, ME*
- TP 088 **Investigation of the Fragmentation of b<sub>3</sub><sup>+</sup> Ions That Contain a  $\gamma$ -Amino Acid using Isotope Labeling and Multiple-Stage Tandem MS;** Chawalee Chueachavalit; Erach Talaty; Michael J. Van stipdonk; *Wichita State University, Wichita, KS*
- TP 089 **Fragmentation of Protonated RGD: A Combined Modeling and Tandem MS study;** Benjamin Bythell<sup>1</sup>; Douglas F. Barofsky<sup>2</sup>; Bela Paizs<sup>2</sup>; <sup>1</sup>*Oregon State University, Corvallis, OR*; <sup>2</sup>*German Cancer Research Center, Heidelberg, Germany*

### ENVIRONMENTAL ANALAYSIS: WATER 090 - 104

- TP 090 **Analysis of Pharmaceuticals in Wastewater Effluents by Liquid Chromatography – Electrospray Ionization-Tandem Mass Spectrometry;** Despina Tsiipi; Charalampia Frosyni; Eleni Botitsi; *General Chemical State Laboratory, Athens, Greece*
- TP 091 **Analysis of Steroid Estrogens in Water using Liquid Chromatography/Tandem Mass Spectrometry with Chemical Derivatizations;** Ying-Hsuan Lin; Chia-Yang Chen; Gen-Shuh Wang; *National Taiwan University, Taipei City, Taiwan*
- TP 092 **Selective Bioaccumulation of PFOS Isomers in the Lake Ontario Food Web;** Jeff M. Small<sup>1</sup>; Gertje Czub<sup>2</sup>; Mehran Alaei<sup>1</sup>; Derek C.G. Muir<sup>1</sup>; Takeo Sakuma<sup>3</sup>;

TUESDAY POSTERS

POSTER SPACE

- Robert Ellis<sup>3</sup>; Andre Schreiber<sup>3</sup>; <sup>1</sup>Environment Canada, Burlington, Canada; <sup>2</sup>Department of Applied Environmental Science, Stockholm, Sweden; <sup>3</sup>Applied Biosystems-MDS-SCIEX, Concord, Canada
- TP 093 **New Residues of Pesticides in Drinking Water: Determination of Chloridazon Metabolites by LC/MS/MS;** Detlev Schleuder<sup>1</sup>; Axel Besa<sup>1</sup>; Wolfgang Schulz<sup>2</sup>; Wolfram Seitz<sup>2</sup>; Walter Weber<sup>2</sup>; <sup>1</sup>Applied Biosystems, Darmstadt, Germany; <sup>2</sup>Zweckverband Landeswasserversorgung, Langenau, Germany
- TP 094 **Analysis of Water for Pesticides at Low Parts per Trillion (ppt) Levels using Two Dimensional LCMSMS without Any Sample Pre-treatment;** Iain Gibb<sup>1</sup>; <sup>1</sup>Applied Biosystems, Warrington, United Kingdom; <sup>2</sup>ALcontrol, Rotherham, United Kingdom
- TP 095 **Chlorinated vs. Chloraminated Drinking Water: Toxicity-Based Identification of Disinfection By-Products Using ESI-MS and ESI-MS/MS;** Susan Richardson<sup>1</sup>; F. Gene Crumley<sup>1</sup>; Francesca Fasano<sup>2</sup>; Michael J. Plewa<sup>3</sup>; Elizabeth D. Wagner<sup>3</sup>; Todd H. Mize<sup>4</sup>; Peggi Angel<sup>4</sup>; Ron Orlando<sup>4</sup>; Leah N. Williamson<sup>4</sup>; Michael G. Bartlett<sup>4</sup>; <sup>1</sup>US EPA, Athens, GA; <sup>2</sup>University of Torino, Torino, Italy; <sup>3</sup>University of Illinois, Urbana, IL; <sup>4</sup>University of Georgia, Athens, GA
- TP 096 **Simultaneous On-Line Measurement of AOP Degradation Kinetics for Trace Gasoline Components in Aqueous Solutions and Natural Waters by MIMS-MS/MS;** Janet H. L. Nelson; Jacob M. Etkorn; Michelle C. Lamarche; Duane A. Friesen; Erik T. Krogh; Christopher G. Gill; *AERL, Malaspina University-College, Nanaimo, Canada*
- TP 097 **Liquid Chromatography Tandem Mass Spectrometry Characterization of New Drinking Water Disinfection Byproducts;** Yuanyuan Zhao; Jessica Boyd; Steve Hrudey; Feng Qin; Xing-Fang Li; *University of Alberta, Edmonton, Canada*
- TP 098 **The Influence of Bromide, Iodide and Copper Ions on the Aquatic Chlorination of 1-methylnaphthalene;** Olga Polyakova; Marina Polyakova; Albert Lebedev; *Moscow State University, Moscow, Russian Federation*
- TP 099 **Analysis of Regulated Pesticides in Drinking Water Using Large Volume Injections, Online Pre-Concentration, and Fast HPLC;** Jonathan R. Beck; Charles T. Yang; *Thermo Fisher Scientific, San Jose, CA*
- TP 100 **Determination of Pharmaceuticals in Environmental Water Samples by Liquid Chromatography Coupled with Electrospray Ionization Tandem Mass Spectrometry;** Cheon-Ho Jo; Seung-Woon Myung; *Kyonggi University, Suwon, South Korea*
- TP 101 **Determination and Quantitation of Ten Pesticides in Drinking Water by use of Solid Phase Extraction and ESI-LCMS;** Scott Niemann<sup>1</sup>; Robert Hobson<sup>2</sup>; Dr. James Chapman<sup>3</sup>; <sup>1</sup>CSS Analytical Company, Inc., Shawnee, KS; <sup>2</sup>AM Laboratories Inc., Olathe, KS; <sup>3</sup>Rockhurst University, Kansas City, MO
- TP 102 **Resolving Unresolved Complex Mixtures: Offline Coupling of Liquid Chromatography and Fourier Transform Ion Cyclotron Resonance Mass Spectrometry;** Boris Koch<sup>1</sup>; Thorsten Dittmar<sup>2</sup>; Matthias Witt<sup>3</sup>; Gerhard Kattner<sup>1</sup>; <sup>1</sup>Alfred-Wegener-Institute for Marine Research, Bremerhaven, Germany; <sup>2</sup>Florida State University, Dep. of Oceanography, Tallahassee, FL; <sup>3</sup>Bruker Daltonik GmbH, Bremen, Germany

POSTER SPACE

- TP 103 **Determination of Ecologically Relevant Pharmaceuticals and Their Selected Metabolites in Effluent and Surface Water using UPLC/MS/MS;** Angela L. Batt; Mitch Kostich; James M. Lazorchak; *U.S. Environmental Protection Agency, Cincinnati, OH*
- TP 104 **Are Halogenated Aminoxy Alcohols Disinfection By-products in Treated Drinking Water? The Need for Accurate Masses in Chemical Ionization Experiments;** Vincent Y. Taguchi<sup>1</sup>; Moschoula A. Trikoupi<sup>1</sup>; Jie Xing<sup>2</sup>; Karl J. Jobst<sup>2</sup>; Johan K. Terlouw<sup>2</sup>; <sup>1</sup>Ministry of the Environment, Toronto, Canada; <sup>2</sup>McMaster University, Hamilton, Canada

POLYMERS  
105 - 131

- TP 105 **Qualitative and Quantitative Determination of Tyloxapol in Ophthalmic Formulations using HPLC Rapid Resolution and MS Detection;** Louis-Philippe Labranche; Andrei Nicolau; Alain Carrier; *Sandoz, Boucherville, Canada*
- TP 106 **Degradation of Polymeric Ballistic Materials;** Eun Su Park; Kathleen M. Flynn; Gale A. Holmes; Charles M. Guttman; William E. Wallace; *NIST, Gaithersburg, MD*
- TP 107 **Analysis of Polymeric Materials using GPC with On-Line ESI Mass Spectrometry and Viscometry;** X. Michael Liu<sup>1</sup>; E. Peter Maziarz<sup>2</sup>; William J. Simonsick, Jr. <sup>3</sup>; <sup>1</sup>Bausch & Lomb, Inc. Global R&D, Rochester, NY; <sup>2</sup>Ethicon (a Johnson & Johnson Company), Somerville, NJ; <sup>3</sup>DuPont Marsh Laboratory, Philadelphia, PA
- TP 108 **LC-MALDI – Functional Separation of Synthetic Polymers for Differentiating Materials;** William Nichols; Andrew Hoteling; *Eastman Kodak Company, Rochester, NY*
- TP 109 **Characterization of Polysorbate 80 in Biotherapeutic Formulations using Mass Spectrometry;** James A. Carroll; Steven Z. Kan; Matthew R. Farber; Scott I. Allen; *Pfizer, Chesterfield, MO*
- TP 110 **MALDI-TOF Analysis of Polymers by Using Tailor-Made Fluorinated Azobenzene and Stilbene Matrices;** Arpad Somogyi; Pang Shu; Anne Padias; Doug Hall; Henry Hall, Jr; *University of Arizona, Tucson, AZ*
- TP 111 **Analysis of Secondary Organic Aerosol Constituents using Desorption-Electrospray Ionization Tandem Mass Spectrometry;** Marc Fiddler; Paul Shepson; *Purdue University, West Lafayette, IN*
- TP 112 **MALDI TOF MS Analysis of Polystyrene in the Mega Dalton Mass Range;** Alexander Aksenov; Mark E Bier; *Carnegie Mellon University, Pittsburgh, PA*
- TP 113 **Laser ablation ICP-MS for Surface-Contaminated 300 mm Si Wafer;** Heung Bin Lim<sup>1</sup>; W. K. Ryu<sup>1</sup>; J. S. Lee<sup>2</sup>; J. S. Kim<sup>1</sup>; P. K. Jun<sup>2</sup>; <sup>1</sup>Dankook University, Seoul, South Korea; <sup>2</sup>Samsung Electroincs, Kiheung, South Korea
- TP 114 **New Approach to Mass Spectrometric Analysis for High Molecular Weight Synthetic Polymers using Ultrasonic Degradations and the Mechanism of Degradation;** Ryuichi Arakawa; Yoshiki Takeda; Hideya Kawasaki; *Kansai University, Osaka, Japan*
- TP 115 **Characterization of Linear and Hyperbranched Acrylate Polymers;** Kittisak Chaicharoen; Michael J. Polce; Coleen Pugh; Chrys Wesdemiotis; *The university of Akron, Akron, OH*
- TP 116 **Use of Graphite as a Simple MALDI Matrix for Synthetic Polymer Applications;** Philip C. Price; *The Dow Chemical Company, South Charleston, WV*

TUESDAY POSTERS

POSTER SPACE

- TP 117 **Determination of Brominated Flame Retardants by Soft Laser Desorption/Ionization-Mass Spectrometry using a Germanium Nanodot Chip as an Ionization Platform;** Hiroaki Sato; Atsushi Nemoto; Atsushi Yamamoto; Masaki Torimura; Hiroaki Tao; *Natl. Inst. Adv. Ind. Sci. & Technol. (AIST), Tsukuba, Japan*
- TP 118 **Extracting Information from the Unresolved Envelope Observed in Electrospray MS of Strongly Ionic Synthetic Copolymers and Homopolymer Mixtures;** Huifang Yao; Kelsey Cook; *University of Tennessee-Knoxville, Knoxville, TN*
- TP 119 **ESI-TOF MS Investigation of Oligomeric Surface-Protection in Monolayer-Protected Nanoparticles;** Anthony P. Gies; David M. Hercules; Aren E. Gerdon; David E. Cliffler; *Vanderbilt University, Nashville, TN*
- TP 120 **Notation for Tandem Mass Spectra of Synthetic Polymers: Polyethers;** Tony Jackson; *ICI plc, Redcar, United Kingdom*
- TP 121
- TP 122 **High Temperature MALDI: Mass Spectrometry of Polyethylene as a Function of Sample Temperature;** William E. Wallace; William R. Blair; *National Institute of Standards & Technology, Gaithersburg, MD*
- TP 123 **Mass Spectrometry of Nonpolar Polymers by Desorption Chemical Ionization Method;** Shuji Kagawa; Masatomi Ozawa; *Mitsubishi Chemical Group, Science and Technology, Yokohama, Japan*
- TP 124 **Challenges in MALDI MS Analysis of Polystyrene Stars, Copolymers, and Sensitive Functionalized Polymers;** Michael J. Polce; Camila Garces; Jonathan Janoski; Manuela Ocampo; Michael Olechnowicz; Roderic P. Quirk; Chrys Wesdemiotis; *The University of Akron, Akron, OH*
- TP 125 **Characterization of Polypropylene Homopolymers by Mild Pyrolysis and MALDI-TOF-Mass Spectrometry;** David Dabney; Michael Polce; Chrys Wesdemiotis; *University of Akron, Akron, OH*
- TP 126 **MALDI-TOF/TOF CID Studies of Styrenic Polymer Fragmentation Reactions;** David M. Hercules; Anthony P. Gies; Matthew J. Vergne; Rebecca L. Orndorff; *Vanderbilt University, Nashville, TN*
- TP 127 **Quantitative Analysis of Tenoactives in Synthetic Latex Samples by Means of High-Resolution Mass Spectrometry;** Jose-Luis Gallegos-Perez; Cristina Fonseca-Corona<sup>1</sup>; Luz-Elena Vera-Avila<sup>1</sup>; *<sup>1</sup>National Autonomous University of Mexico, Mexico city, Mexico; <sup>2</sup>National Institute of Genomic Medicine, Mexico, Mexico City, Mexico*
- TP 128 **Profiling Impurities in a Taxol Formulation: Application of a Mass-Dependent Mass Defect Filter to Remove Polymeric Excipient Interferences;** Haiying Zhang; Kenneth Ray; *Bristol-Myers Squibb Pharm Res, Princeton, NJ*
- TP 129 **Challenges in the Mass Spectrometry Analysis of Poly(dichlorophosphazene)s;** Alyison M. Leigh; Claire A. Tessier; Chrys Wesdemiotis; *The University of Akron, Akron, OH*
- TP 130 **Copolymer Analysis using MALDI-TOF Mass Spectrometry and Statistics;** Mark Arnould; *Xerox, Webster, NY*
- TP 131 **CID Fragmentation of Cyclic Caprolactam Adduct Ions Depending on Ionisation Mode and Collision Energy;** Martin Resch<sup>1</sup>; Karsten Rode<sup>2</sup>; Joseph Fox<sup>3</sup>; Harald Pasch<sup>2</sup>; *<sup>1</sup>Shimadzu Europa GmbH, Duisburg, Germany; <sup>2</sup>German Institute for Polymers, Darmstadt,*

POSTER SPACE

*Germany; <sup>3</sup>Shimadzu Scientific Instruments Inc., Columbia, MD*

LC/MS  
132 - 146

- TP 132 **Indirect Identification of Haemoglobin-Based Oxygen Carriers in Equine Plasma using Liquid Chromatography/Tandem Mass Spectrometry;** Colton H F Wong<sup>1</sup>; Gary N W Leung<sup>1</sup>; Terence S M Wan<sup>1</sup>; Shawn Stanley<sup>2</sup>; *<sup>1</sup>The Hong Kong Jockey Club, Hong Kong, Hong Kong; <sup>2</sup>Singapore Turf Club, Singapore, Singapore*
- TP 133 **Development and Validation of a Quantitative LC-MS/MS Method for Ten Perfluorinated Compounds in Human Breast Milk;** Syrago Styliani E Petropoulou<sup>1</sup>; Andrew Lindstrom<sup>2</sup>; Mark Strynar<sup>2</sup>; Laurence Helfant<sup>3</sup>; Xibiao Ye<sup>2</sup>; Shoji Nakayama<sup>1</sup>; *<sup>1</sup>Oak Ridge Institute for Science and Education, Oak Ridge, TN; <sup>2</sup>HEASD/NERL/MDAB, US EPA, Research Triangle Park, NC 27711; <sup>3</sup>Senior Environmental Employment Program, National, Washington, DC*
- TP 134 **Effectiveness of Surface Activated Chemical Ionization Mass Spectrometry in Trace Analysis of Street Drugs in Non Pre-Purified Hair Samples;** Simone Cristoni<sup>1</sup>; Luigi Rossi Bernardi<sup>2</sup>; *<sup>1</sup>ISB, Italy, Italy; <sup>2</sup>Multimedica Laboratories, Milan, Italy*
- TP 135 **High Throughput Nano-LC/ESI-MS with Microfluidic Gradient Generation;** Hongfeng Yin; Reid A. Brennen; Kevin P Killen; *Agilent Technologies, Santa Clara, CA*
- TP 136 **Novel Uses of Ion Chromatography Suppressors Prior to ESI-MS;** Rosanne Slingsby; *Dionex Corp, Sunnyvale, CA*
- TP 137 **Development of an LC-MS<sup>n</sup> Method for the Detection of Ziconotide in Horse Serum;** Jhoana Mendoza<sup>1</sup>; Keith D. Zientek<sup>2</sup>; Patrick T. Russell<sup>3</sup>; Richard A. Sams<sup>3</sup>; John R. Eycler<sup>1</sup>; Laszlo Prokai<sup>4</sup>; *<sup>1</sup>University of Florida, Gainesville, FL; <sup>2</sup>BASi Northwest Laboratory Services, McMinnville, OR; <sup>3</sup>UF College of Vet. Med. Racing Laboratory, Gainesville, FL; <sup>4</sup>University of North Texas Health Science Center, Fort Worth, TX*
- TP 138 **Analysis of Primary and Secondary Organic Aerosols by LC-MS/MS;** James C Reynolds; Lucy J Carpenter; Alastair C Lewis; *University of York, York, United Kingdom*
- TP 139 **Simultaneous LC-MS/MS Determination of Sildenafil and Related Analogues Added Illegally to Herbal Products Intended for the Treatment of Erectile Dysfunction;** Martin Dušek<sup>1</sup>; Miloslav Šanda<sup>2</sup>; Petr Cuhra<sup>1</sup>; Sona Baršová<sup>1</sup>; *<sup>1</sup>Czech Agriculture and Food Inspection Authority, Prague, Czech Republic; <sup>2</sup>Institute of Organic Chemistry and Biochemistry, Prague, Czech Republic*
- TP 140 **A New Mass Spectrometric Method for the Assay of N<sup>8</sup>-Acetylspermidine Deacetylase;** Yongyuan Zhao; James W. Blankenship; JianHua Ren; O. David Sparkman; Patrick R. Jones; *Univeristy of the Pacific, Stockton, CA*
- TP 141 **Detection of Stanozolol in Equine Biological Matrix using an Alternate Separation Technique with FAIMS Tandem MS-MS;** Benjamin C Moeller; Scott D Stanley; Roland P Carlson; Daniel McKemie; *University of California at Davis, Davis, CA*
- TP 142 **A Sensitive Enantioselective Method for Determination of Reboxetine Isomers in Plasma & Tissue using Automated Sample Preparation with**

## TUESDAY POSTERS

POSTER SPACE

- TP 143 **LC\MS\MS Analysis**; Joe Palandra; Desiree Watson; Felicia Kpakima; Ayman El-Kattan; Lucinda Cohen; Pfizer, Ann Arbor, MI
- TP 144 **Analysis of Beer Using a High Speed U-HPLC Coupled to a Hybrid Linear Ion Trap Mass Spectrometer**; Gary Woffendin; Katerina Klagkou; Michaela Scigelova; Thermo Fisher Scientific, Hemel Hempstead, United Kingdom
- TP 144 **Retention Time Conversion for Cross-Platform Transfer of HPLC-MS/MS Proteomics Data**; Irina A. Tarasova<sup>1</sup>; Christophe D. Masselon<sup>2</sup>; Marina L. Pridatchenko<sup>1</sup>; Sylvie Kieffer-Jaquinod<sup>3</sup>; Vilem Guryca<sup>3</sup>; Jerome Garin<sup>3</sup>; Alexander V. Gorshkov<sup>2</sup>; Victor V. Evreinov<sup>2</sup>; Mikhail V. Gorshkov<sup>1</sup>; <sup>1</sup>Institute of Energy Problems of Chemical Physics, Moscow, Russia; <sup>2</sup>Institute of Chemical Physics, Moscow, Russia; <sup>3</sup>CEA Grenoble, EDyP laboratory, INSERM U 880, Grenoble, France
- TP 145 **Drugs as New Environmental Contaminants: Photocatalytic Degradation Process as a Tool to Study Biological/Environmental Fate of Salbutamol and Atenolol**; Claudio Medana<sup>1</sup>; Paola Calza<sup>1</sup>; Enrico Davoli<sup>2</sup>; Claudio Baiocchi<sup>1</sup>; <sup>1</sup>Universita' degli Studi di Torino, Torino, Italy; <sup>2</sup>Istituto Mario Negri, Milano, Italy
- TP 146 **Rapid identification of Soil Degradates using Accurate Mass, MS/MS Data, and Isotopic Pattern Recognition**; Sara J. Linder; Jesse L. Balcer; Robin N. Yoder; Pete L. Johnson; Mark Krieger; Jeffrey R. Gilbert; Dow AgroSciences, Indianapolis, IN

### BIOINFORMATICS

147 - 177

- TP 147 **Automated MS Data Processing Pipeline in the Testis Proteome Pilot Project**; Regis Lavigne<sup>1</sup>; Djibril Ousmanou<sup>1</sup>; Morgane Couvet<sup>1</sup>; Nathalie Guitton<sup>1</sup>; Jorg Glandorf<sup>2</sup>; Herbert Thiele<sup>2</sup>; Charles G. Pineau<sup>1</sup>; <sup>1</sup>Inserm U625, Proteomics Platform OUEST-genopole, Rennes, France; <sup>2</sup>Bruker Daltonics, GmbH, Bremen, Germany
- TP 148 **ProteomeWorkflow : Workflow Tool for Building Proteomics Workflows**; David Lentz; Christopher J Mason; Rudi Chiarito; H. Robert Bergen III; Mayo Clinic, Rochester, MN
- TP 149 **PRIME: Proteome Research Information Management Environment For High-Throughput Proteomics Laboratories**; Panagiotis G. Papoulias<sup>1</sup>; David H. Lentz<sup>2</sup>; Philip C. Andrews<sup>1</sup>; <sup>1</sup>National Resource For Proteomics And Pathways, Ann Arbor, MI; <sup>2</sup>MayoClinic, Rochester, MN
- TP 150 **A Comprehensive Data Processing Workflow for Topdown Proteomics**; Frank Li; Peter Baker; Feixia Chu; Robert Chalkley; Shenheng Guan; Al Burlingame; University of California, San Francisco, CA
- TP 151 **Assessment and Control of False Positive Rates in Large-scale Proteomic Studies using Randomized Protein Sequence Databases**; Guanghui Wang; Wells W. Wu; Rong-Fong Shen; NHLBI, NIH, Bethesda, MD
- TP 152 **Recent Advances in Performance and Search Engine Compatibility in the Trans-Proteomic Pipeline: Combining Phenix and the Proteomic Pipeline for Quantitation**; Bryan J. Prazen; Brian S. Pratt; Erik J. Nilsson; Insilicos, Seattle, WA
- TP 153 **Combining Spectral Library Searching with Sequence Searching of MS/MS Peptide Spectra**; Paul Rudnick<sup>1</sup>; Stephen H. Bryant<sup>2</sup>; Lewis Y. Geer<sup>2</sup>; Lisa E. Kilpatrick<sup>1</sup>; Jeffrey A. Kowalak<sup>3</sup>; Sanford P. Markey<sup>3</sup>;

POSTER SPACE

- Yuri Mirokin<sup>1</sup>; Stephen E. Stein<sup>1</sup>; Ming Xu<sup>2</sup>; <sup>1</sup>National Institute of Standards and Technology, Gaithersburg, MD; <sup>2</sup>National Center for Biotechnology Information, Bethesda, MD; <sup>3</sup>National Institute of Mental Health, Bethesda, MD
- TP 154 **BUDSS: A Software Shell for Automated MS Data Processing and Management**; Yang Su<sup>1</sup>; Sequin Huang<sup>2</sup>; Hua Huang<sup>3</sup>; David H. Perlman<sup>1</sup>; Catherine E. Costello<sup>1</sup>; Mark E. McComb<sup>1</sup>; <sup>1</sup>Boston University, Boston, MA; <sup>2</sup>Waters Corp, Milford, MA; <sup>3</sup>Allergan Inc, Irvine, CA
- TP 155 **ProtQuant Suite: A Software Tool for Protein Quantification in High-Throughput Proteomics**; Milan Madera<sup>1</sup>; Yehia Mechref<sup>2</sup>; Benjamin Mann<sup>1</sup>; Quanhu Sheng<sup>2</sup>; Haixu Tang<sup>3</sup>; Milos V. Novotny<sup>1</sup>; <sup>1</sup>Indiana University, Bloomington, IN; <sup>2</sup>National Center for Glycomics and Glycoproteomics, Bloomington, IN; <sup>3</sup>School of Informatics, Bloomington, IN
- TP 156 **Gene Annotation in Toxoplasma gondii**; Dmitrij Rykunov; Carlos Madrid; Edward Nieves; Fa-Yun Che; Hui Xiao; Kami Kim; Louis Weiss; Ruth Hogue Angeletti; Andras Fiser; Albert Einstein College of Medicine, Bronx, NY
- TP 157 **MassSieve: A New Visualization Tool for Mass Spectrometry-based Proteomics**; Douglas J. Slotta; Melinda A. McFarland; A. James Makusky; Sanford P. Markey; NIMH/NIH, Bethesda, MD
- TP 158 **Information Architecture for a High Throughput Proteomics Laboratory**; Donald J. Johann<sup>2</sup>; Josip Blonder<sup>1</sup>; Timothy D. Veenstra<sup>1</sup>; Ming Zhou<sup>1</sup>; <sup>1</sup>SAIC-Frederick, Frederick, MD; <sup>2</sup>National Cancer Institute, Bethesda, MD
- TP 159 **ISPIDER Central: A Novel Bioinformatic Infrastructure for Accessing, Comparing and Adding Value to Proteomic and Mass Spectrometric Data**; Jennifer Siepen<sup>1</sup>; Khalid Belhajjame<sup>1</sup>; Lucas Zamboulis<sup>2</sup>; Nigel Martin<sup>2</sup>; Alex Poulouvassilis<sup>2</sup>; Julian Selley<sup>1</sup>; Norman Paton<sup>1</sup>; Suzanne Embury<sup>1</sup>; Simon Hubbard<sup>1</sup>; <sup>1</sup>University of Manchester, Manchester, United Kingdom; <sup>2</sup>Brikbeck College, London, UK
- TP 160 **An Integrated System for Proteomic Mass Spectrometric Data Management and Analyses**; Sung Kyu Park; Tao Xu; Daniel Cociorva; Bingwen Lu; Claire Delahunty; Lujian Liao; Cristian Ruse; Johannes Hewel; John R. Yates III; Scripps Research Institute, La Jolla, CA
- TP 161 **Enhancing the OMSSA Browser: Embedding the OMSSA MS/MS Search Engine and Protein Level Data Processing for Bottom-up Proteomics**; Ming Xu; Lewis Y. Geer; Stephen H. Bryant; NCBI/NLM/NIH, Bethesda, MD
- TP 162 **Building Peptide Mass Spectral Libraries from Bacterial Proteomes Analyzed by 2D-LC-MS/MS**; Lisa E. Kilpatrick<sup>1</sup>; Nikole Kimes<sup>2</sup>; Pamela J. Morris<sup>2</sup>; Jeri Roth<sup>1</sup>; Paul Rudnick<sup>1</sup>; Xiaoyu Yang<sup>1</sup>; Stephen E. Stein<sup>1</sup>; <sup>1</sup>National Institute of Standards and Technology, Gaithersburg, MD; <sup>2</sup>Medical University of South Carolina, Charleston, SC
- TP 163 **Data Analysis Strategy for Comprehensive and Confident Coverage of the Human Salivary Proteome**; Daniel Cociorva; Tao Xu; Sung Kyu Park; Bingwen Lu; Lujian Liao; Claire Delahunty; John R Yates; The Scripps Research Institute, La Jolla, CA
- TP 164 **Tranche Open and Secure Proteomics Data Sharing and Google-Like Interface for Searching Proteomics**

TUESDAY POSTERS

POSTER SPACE

- TP 165 **Data; Philip C. Andrews;** Jayson A. Falkner; *University of Michigan, Ann Arbor, MI*  
**High-Throughput Data Management of Shotgun IEF Results by ProteinScape;** Alexis Chauvet<sup>1</sup>; Pierre-Alain Binz<sup>2</sup>; Ali R. Vaezzadeh<sup>1</sup>; Catherine G. Zimmermann-Ivol<sup>1</sup>; Patricia M. Palagi<sup>2</sup>; Ron D. Appel<sup>2</sup>; Herbert Thiele<sup>5</sup>; Denis Hochstrasser<sup>1</sup>; <sup>1</sup>BPRG, *University Hospital, Geneva, Switzerland*; <sup>2</sup>Proteome Informatics G., *Swiss Inst. Bioinform., Geneva, Switzerland*; <sup>3</sup>Geneva Bioinformatics (GeneBio) S.A., *Geneva, Switzerland*; <sup>4</sup>Computer Science Department, *Geneva University, Geneva, Switzerland*; <sup>5</sup>Bruker Daltonics GMBH, *Bremen, Deutschland*
- TP 166 **A Software Suite to Expedite the Study of Cell Signaling Pathway: Automated Acquisition, Organization and Annotation;** Kebing Yu; *Brown University, Providence, RI*
- TP 167 **Redundancy of Protein Databases: Problems and Solutions;** Morten Bern; Ole Vorm; Alexandre Podtelejnikov; *Proxeon A/S, Odense, Denmark*
- TP 168 **Creation and Optimization of Mass Spectrometry Diagnostic Workflows using a Visual Programming Interface;** Maciek Sasinowski<sup>1</sup>; Krista Miller<sup>1</sup>; Jason Miller<sup>1</sup>; Dough Hawkins<sup>1</sup>; Nick Glover<sup>1</sup>; Heather Sasinowska<sup>1</sup>; Dariya Malyarenko<sup>2</sup>; Maureen Tracy<sup>2</sup>; Liang Wei<sup>2</sup>; Haijian Chen<sup>2</sup>; Christine Bunai<sup>2</sup>; Karl Kuschner<sup>2</sup>; John Semmes<sup>3</sup>; Richard Drake<sup>3</sup>; Eugene Tracy<sup>2</sup>; Dennis Manos<sup>2</sup>; William Cooke<sup>2</sup>; <sup>1</sup>INCOGEN, *Inc, Williamsburg, VA*; <sup>2</sup>College of William and Mary, *Williamsburg, Virginia*; <sup>3</sup>Eastern Virginia Medical School, *Norfolk, VA*
- TP 169 **Corra: Computational Tools for Discovery and Targeted Mass Spectrometry: Application to Candidate Biomarker Identification for Human Type 2 Diabetes;** Mi-Youn Brusniak<sup>1</sup>; Simon Letarte<sup>1</sup>; Olga Vitek<sup>2</sup>; David Campbell<sup>1</sup>; Lukas Muller<sup>3</sup>; Vagisha Sharma<sup>1</sup>; James Edde<sup>1</sup>; Julian Watts<sup>1</sup>; Ruedi Aebersold<sup>1</sup>; <sup>1</sup>Institute for Systems Biology, *Seattle, WA*; <sup>2</sup>Statistics and Computer Science, *Purdue University, West Lafayette, IN*; <sup>3</sup>Institute of Molecular Systems Biology, *Zurich, Switzerland*
- TP 170 **Bioinformatical Data Mining in Shotgun Proteomics;** Morten Bern; Hans Jespersen; Alexandre Podtelejnikov; Peter Venø; Martin Damsbo; Soren Larsen; Brian Ramsgaard; Erik Nielsen; Jacob Kristensen; Kenneth Budin; John Chakel; Ole Vorm; *Proxeon A/S, Odense, Denmark*
- TP 171 **Interactive Visualization of Omics Molecular Expression Networks;** Mingwu Zhang; Michael Kane; David Salt; Sunil Prabhakar; Charles Buck; Fred Regnier; Xiang Zhang; *Purdue University, West Lafayette, IN*
- TP 172 **Evaluation of Different Strategies for Constructing Decoy Sequence Databases;** Roger Moore; Mary K. Young; Terry D. Lee; *Beckman Research/City of Hope, Duarte, CA*
- TP 173 **Procedures and Guidelines for the Validation of MS Based Database Search Protocols for Unequivocal Protein Identification;** Jackie Mosely<sup>1</sup>; Gavin O'Connor<sup>2</sup>; Simon Cowen<sup>2</sup>; Sarah Williams<sup>1</sup>; <sup>1</sup>Durham University, *Durham, United Kingdom*; <sup>2</sup>LGC Limited, *Teddington, United Kingdom*
- TP 174 **A Reference Collection of MS/MS Spectra of Bioactive Peptides;** Xiaoyu Yang; Pedatsur Neta; Quan-

POSTER SPACE

- long Pu; Lisa Kilpatrick; Jeri Roth; Stephen E. Stein; *NIST, Gaithersburg, MD*
- TP 175 **Visualization of Peptide-Protein Relationship Networks in Cytoscape;** Luis Mendoza<sup>1</sup>; Ruedi Aebersold<sup>2</sup>; <sup>1</sup>Institute For Systems Biology, *Seattle, WA*; <sup>2</sup>Institute for Molecular Systems Biology, *ETH Zurich, Zurich, Switzerland*
- TP 176 **XCMS: A Dynamic Metabolomic Proteomic Conduit;** Paul H Benton<sup>1</sup>; Colin Smith<sup>2</sup>; Sunia Trauger<sup>1</sup>; Gary Siuzdak<sup>1</sup>; <sup>1</sup>Scripps, *La Jolla, CA*; <sup>2</sup>UCSF, *San Francisco, CA*
- TP 177 **Redundant Data Storage and Data Processing Computer Hardware Solution for Mass Spectrometry Laboratories on a Budget;** James West; Weiwei Tong; Yang Su; Catherine Costello; Mark McComb; *Boston University, Boston, MA*

LIPIDS: STRUCTURAL ANALYSIS  
178 - 190

- TP 178 **Reducing Fragmentation Observed in the MALDI-TOF MS Analysis of Triacylglycerols in Vegetable Oils;** Jack Lay; Jennifer Gidden; Rohana Liyanage; Bill Durham; *Univeristy of Arkansas, Fayetteville, AR*
- TP 179 **Software Framework for Versatile Interpretation of Cross-Platform Lipidomics Datasets;** Dominik Schwudke; Ronny Herzog; Vitaly Matias; Teymuraz Kurzchalia; Andrej Shevchenko; *Max Planck Institute CBG, Dresden, Germany*
- TP 180 **Phospholipidomics: Characterisation of Phosphatidylethanolamines in Lipid Extracts by Hyphenated Techniques;** Jan Willmann<sup>1</sup>; Manfred Spraul<sup>2</sup>; Herbert Thiele<sup>3</sup>; Dieter Leibfritz<sup>1</sup>; <sup>1</sup>University of Bremen, *Bremen, Germany*; <sup>2</sup>Bruker BioSpin GmbH, *Rheinstetten/Karlsruhe, Germany*; <sup>3</sup>Bruker Daltonik GmbH, *Bremen, Germany*
- TP 181 **Shotgun Sphingolipidomics: ESI/MS Analysis and Quantitation of Cellular Sphingolipids from Crude Extracts of Biological Samples after Treatment with Lithium Methoxide;** Xianlin Han; Xuntian Jiang; *Washington University School of Medicine, St. Louis, MO*
- TP 182 **Data Independent Direct Infusion Tandem Mass Spectrometry (DI2MS2), an Automated Approach to Monitor Quantitative and Qualitative Differences of the Metabolome;** Phillip Sanders; Jian Wang; Jeffrey Dage; Ming-Shang Kuo; *Eli Lilly, Indianapolis, IN*
- TP 183 **Accurate and Global Analysis of Phospholipids and Glycerolipids by Orbitrap Mass Spectrometry Combination with High Separation Liquid Chromatography;** Ryo Taguchi; Toshiaki Houjou; Kazutaka Ikeda; Takao Shimizu; *The University of Tokyo, Tokyo, Japan*
- TP 184 **Quantification of the Potential Biomarkers Platelet-activating Factors (PAFs) and Lysogpcys by Reversed Phase HPLC-Tandem Mass Spectrometry;** Roland Geyer<sup>1</sup>; Uta Ceglarek<sup>2</sup>; Axel Besa<sup>3</sup>; <sup>1</sup>Applera Europe B.V., *6343 Rotkreuz, Switzerland*; <sup>2</sup>LM, *University Hospital Leipzig, 04103 Leipzig, Germany*; <sup>3</sup>Applied Biosystems, *64293 Darmstadt, Germany*
- TP 185 **Relative Quantitation of Glycerophosphoethanolamine Lipids Using Isotope-Tagged (iTRAQ and mTRAQ) Derivatives;** Karin A. Zemski-Berry<sup>1</sup>; John M. Hevko<sup>2</sup>; Robert C. Murphy<sup>1</sup>; <sup>1</sup>UCHSC/UCH at Fitzsimons, *Aurora, CO*; <sup>2</sup>Applied Biosystems, *Foster City, CA*

TUESDAY POSTERS

POSTER SPACE

- TP 186 **Characterization of Total and Class-Separated Lipid Extracts;** Jane Zhao<sup>1</sup>; Alina Dindyal-Popescu<sup>1</sup>; Eva Duchoslav<sup>1</sup>; Kim Ekroos<sup>2</sup>; Gun-Britt Forsberg<sup>2</sup>; <sup>1</sup>*Applied Biosystems/MDS Sciex, Concord, Canada*; <sup>2</sup>*AstraZeneca R&D, Molndal, Sweden*
- TP 187 **Application of 2D-HPLC/ESI/MS-MS for the Comprehensive Analysis of Complex Mixtures of Triglycerides;** Dong Zheng<sup>1</sup>; Lan Yang<sup>2</sup>; Jason Evans<sup>1</sup>; <sup>1</sup>*Umass Boston, Boston, MA*; <sup>2</sup>*Altus Pharmaceuticals Inc., Cambridge, MA*
- TP 188 **Chemical Activation Using Transition Metal Ions For Promoting Specific Dissociations of Fatty Acids Under Low Collision Energy Conditions and IRMPD;** Carlos Afonso; Ying Xu; Françoise Fournier; Jean-Claude Tabet; *Université Paris 6, Paris, France*
- TP 189 **In vivo Measurements of Endogenous and Isotopically Labeled Phospholipids by Tandem Mass Spectrometry;** Sebastien Gagne; Nathalie Coulombe; Nathalie Methot; Kevin Bateman; *Merck Frosst Canada & Co, Kirkland, Canada*
- TP 190 **Positional Analysis of Triglycerides using Collisional-induced Decomposition in an Ion Trap: Defining the Calibration Plots of ABA/AAB-type Positional Isomer Systems;** Robert Gakwaya; Melissa Liriano; Elizabeth, J Collins; Jason Evans; *University of Massachusetts Boston, Boston, MA*

**CARBOHYDRATES & OLIGOSACCHARIDES II  
191 - 211**

- TP 191 **Characterization of Oligosaccharides using Infrared Multiphoton Dissociation and an IR-Active Boronic Acid Derivatization Reagent;** Michael Pikulski; Lisa Vasicek; Jennifer Brodbelt; *The University of Texas, Austin, TX*
- TP 192 **Differentiation of Li-coordinated Disaccharide Isomers by Wavelength-dependent CO<sub>2</sub> Laser Photo-fragmentation and Fourier Transform Ion Cyclotron Mass Spectrometry;** Sarah Stefan; John Eyler; *University of Florida, Gainesville, FL*
- TP 193 **Isomeric Differentiation of N-Glycan Structures by Laser-Induced Photofragmentation inside an Ion-Trap Mass Spectrometer;** Arugadoss Devakumar; Yahia Mechref; Pilsoo Kang; Milos V Novotny; James P Reilly; *Indiana University, Bloomington, IN*
- TP 194 **Electron Detachment Dissociation of Neutral and Sialylated Oligosaccharides;** Julie T. Adamson; Kristina Håkansson; *University of Michigan, Ann Arbor, MI*
- TP 195 **Characterization of Post-Translational Modifications Including Carbohydrates of a Monoclonal Antibody via HPAEC-PAD, NR-LC-MS/MS, Limited Proteolysis and Peptide Mapping;** Melissa Zolodz; John C. Le; Scott Buckel; *Xencor, Monrovia, CA*
- TP 196 **Electron Capture/Detachment Dissociation and Collisionally Activated Dissociation Provide Complementary Structural Information of Permethylated and Native Oligosaccharides;** Cheng Zhao; Bo Xie; Jason Courmoyer; Shiu-Yung Chan; Joseph Zaia; Catherine Costello; Peter O'Connor; *Boston University, Boston, MA*
- TP 197 **Ionic Liquid Matrix for MALDI-TOF/TOF-MS Analysis of Keratan Sulfate Oligosaccharides;** Yuntao Zhang<sup>1</sup>; Abigail H Conrad<sup>1</sup>; Yutaka Kariya<sup>2</sup>; Kiyoshi uzuki<sup>2</sup>; Gary W Conrad<sup>1</sup>; <sup>1</sup>*Kansas State University, Manhattan, KS*; <sup>2</sup>*Seikagaku Corporation, Higashiyamato-shi, Japan*

POSTER SPACE

- TP 198 **Atmospheric Pressure Photoionization Mass Spectrometry of Permethylated Oligosaccharides;** Aïcha Bagag<sup>1</sup>; Alexandre Giuliani<sup>2</sup>; Olivier Laprêvôte<sup>1</sup>; <sup>1</sup>*Laboratoire de Spectrométrie de masse, ICSN-CNRS, Gif sur Yvette, FR*; <sup>2</sup>*Cepia, INRA, Nantes cedex 3, FR*
- TP 199 **Differentiation of Linkage Isomers and Anomers of Disaccharides by Anion Attachment with Post-Source Decay in MALDI-rTOF;** Bing Guan; Richard B. Cole; *University of New Orleans, New Orleans, LA*
- TP 200 **Differential EI Ion Fragmentation Pathways for Peracetylated C-Glycoside Ketals;** Anthony Adeuya<sup>1</sup>; Frank Momany<sup>2</sup>; Neil P. Price<sup>1</sup>; <sup>1</sup>*USDA-ARS-NCAUR, Bioproducts & Biocatalysis Research, Peoria, IL*; <sup>2</sup>*USDA-ARS-NCAUR, Plant Polymer Research, Peoria, IL*
- TP 201 **High Performance Structural Analyses of Glycopeptides by Low-Energy CID using MALDI-QIT-TOF Mass Spectrometer;** Sadanori Sekiya; Koichi Tanaka; *Shimadzu Corporation, Kyoto, Japan*
- TP 202 **Sensitive Detection of Oligosaccharides by LDI/TOF using Silica Modified Stainless-Steel Plate;** Joeng Heon Lee<sup>2</sup>; Mi Young Ha<sup>2</sup>; Yangsun Kim<sup>1</sup>; <sup>1</sup>*Hudson surface Technology, Newark, NJ*; <sup>2</sup>*ASTA, Suwon, Korea*
- TP 203 **A Computational Approach to Glycan Isoform Characterization Using MALDI-TOF-TOF Mass Spectrometry;** Quanhu Sheng<sup>1</sup>; Yehia Mechref<sup>1</sup>; Pilsoo Kang<sup>1</sup>; Milos V Novotny<sup>1</sup>; Yixue Li<sup>2</sup>; Rong Zeng<sup>2</sup>; Haixu Tang<sup>1</sup>; <sup>1</sup>*Indiana University, Bloomington, IN*; <sup>2</sup>*Shanghai Institutes for Biological Sciences, Shanghai, China*
- TP 204 **Analysis of Oligosaccharides by Capillary Anion-Exchange Chromatography Using Pulsed Amperometric Detection and On-line ESI Ion-Trap Mass Spectrometry;** C. Bruggink<sup>1</sup>; C.A.M. Koeleman<sup>2</sup>; V. Barreto<sup>3</sup>; Y. Lui<sup>3</sup>; C. Pohl<sup>3</sup>; A. Ingendoh<sup>4</sup>; M. Wuhrer<sup>2</sup>; C.H. Hokke<sup>2</sup>; A.M. Deelder<sup>2</sup>; <sup>1</sup>*Dionex Benelux, Amsterdam, The Netherlands*; <sup>2</sup>*Leiden University Medical Center, Leiden, The Netherlands*; <sup>3</sup>*Dionex Corp., Sunnyvale, CA*; <sup>4</sup>*Bruker Daltonics, Bremen, Germany*
- TP 205 **Theoretical Study on Fragmentation Mechanisms of Positive and Negative Ions of Oligosaccharides;** Takae Takeuchi<sup>1</sup>; Ayami Nakao<sup>1</sup>; Michiko Tajiri<sup>3</sup>; Yoshinao Wada<sup>4</sup>; <sup>1</sup>*Nara Women's University, Nara, Japan*; <sup>2</sup>*AIST, Ikeda, Japan*; <sup>3</sup>*JST, Izumi, Japan*; <sup>4</sup>*Osaka MCHRI, Izumi, Japan*
- TP 206 **Structural Analysis of Underivatized Sulfated Glycans using IR-MALDI-QIT-TOF-MS;** Katsutoshi Takahashi<sup>1</sup>; Toshikazu Minamisawa<sup>2</sup>; <sup>1</sup>*AIST, Tokyo, Japan*; <sup>2</sup>*Seikagaku Corporation, Higashiyamato, Japan*
- TP 207 **Collision Induced Dissociation and Higher Energy C-trap Dissociation of Oligosaccharides on a Hybrid Linear Ion Trap – Orbitrap Mass Analyzer;** Gottfried Pohlentz<sup>1</sup>; Kerstin Strupat<sup>2</sup>; Thomas Moehring<sup>2</sup>; Jasna Peter-Katalinic<sup>1</sup>; <sup>1</sup>*Univ. of Muenster, Muenster, Germany*; <sup>2</sup>*Thermo Fisher Scientific, Bremen, Germany*
- TP 208 **“One-pot” Methylation in Glycomics Application: Esterification of Sialic Acids and Permanent Charge Construction;** Xin Liu<sup>1</sup>; Xianyu Li<sup>1</sup>; Kenneth Chan<sup>1</sup>; Wei Zou<sup>1</sup>; Patrick Pribil<sup>2</sup>; Xing-Fang Li<sup>3</sup>; Michael B. Sawyer<sup>3</sup>; Jianjun Li<sup>1</sup>; <sup>1</sup>*National Research Council, Ottawa, Canada*; <sup>2</sup>*Applied Biosystems/MDS Sciex, Concord, Canada*; <sup>3</sup>*University of Alberta, Edmonton, Canada*

TUESDAY POSTERS

POSTER SPACE

- TP 209 **DHB/Aniline MALDI Matrix for Improved Detection and On-Target Derivatization of Glycans: Towards Automated Identification and Quantitative Analysis;** Sergei L. Snovida; Justin M. Rak-Banville; H el ene Perreault; *University of Manitoba, Winnipeg, Canada*
- TP 210 **Electron Detachment Dissociation Fourier Transform Mass Spectrometry Of Glycosaminoglycan Oligosaccharides;** Jeremy J. Wolff<sup>1</sup>; Tatiana Larramore<sup>2</sup>; Robert J. Linhardt<sup>2</sup>; I. Jonathan Amster<sup>1</sup>; <sup>1</sup>*University of Georgia, Athens, GA*; <sup>2</sup>*Rensselaer Polytechnic Institute, Troy, NY*
- TP 211 **MALDI for Large Polysaccharides Detection;** Nien-Yeen Hsu; *Genomics Research Center, Academia Sinica, Taipei, Taiwan*

**METABOLITES (ENDOGENOUS): TARGETED ANALYSIS  
212 - 223**

- TP 212 **Method Development of Capillary Electrophoresis-Electrospray Ionization-Mass Spectrometry for Metabolic Comparison of Wild Type and Ethanol Adapted Strains of Clostridium Thermocellum;** Anup P. Thakur; Herbert J. Strobel; Barbara L. Knutson; Sue E. Nokes; Bert C. Lynn; *University of Kentucky, Lexington, KY*
- TP 213 **HPLC/Time-of-Flight Mass Spectrometry Based Metabolite Profiling of Betaines and Dimethylsulfoniopropionate in Corals;** Chao Li; A. Daniel Jones; *Michigan State University, East Lansing, MI*
- TP 214 **Comparative Metabolite Profiling of Carboxylic Acids in Rat Urine by CE-ESI MS/MS through Positively Pre-charged and 2H-Coded Derivatization;** Wen-Chu Yang; Fred E. Regnier; *Department of Chemistry, Purdue University, West Lafayette, IN*
- TP 215 **LC/TOF MS with Multiplexed CID for Profiling Acylsugar and other Specialized Metabolites in Solanum Trichomes;** Feng Shi; Jason Kuo; McClosky Daniel; A. Daniel Jones; *Michigan State University, East Lansing, MI*
- TP 216 **UPLC and Monolithic HPLC/ESI-MS and MS/MS Determination of Carnitine and Acylcarnitines;** Soledad Cerutti; Timothy Garret; Peggy R. Borum; Jodie V. Johnson; Richard A. Yost; David H. Powell; *University of Florida, Gainesville*
- TP 217 **Profiling of Sugar Phosphate Metabolism in Arabidopsis using GC-MS with Pseudo-MS3;** David Mccaskill; Mendy L. Foster; Jon C. Mitchell; *Dow AgroSciences, Indianapolis, IN*
- TP 218 **Comparative Metabolism Study between Calcitriol and 3epi-calcitriol using HPLC and GC/MS: New Evidence for the Metabolic Stability of 3epi-calcitriol;** Caroline Ceailles<sup>1</sup>; Paul Vouros<sup>1</sup>; Alex Brown<sup>2</sup>; Seiichi Ishizuka<sup>3</sup>; Guochun Wang<sup>4</sup>; Matthew Robinson<sup>4</sup>; G. Satyanarayana Reddy<sup>4</sup>; <sup>1</sup>*Northeastern University, Boston, MA*; <sup>2</sup>*Washington University School of Medicine, St. Louis, MO*; <sup>3</sup>*Teijin Institute for Bio-Medical Research, Tokyo, Japan*; <sup>4</sup>*Epimer LLC, Providence, RI*
- TP 219 **Quantitative Analysis of Acylcarnitines in Plasma, Serum and Urine by Liquid Chromatography— Tandem Mass Spectrometry;** John Hanley Jr; Sonia Gill; Halani Meneses; Alex Salazar; Ann Trinh; *Lipomics Technologies, West Sacramento, CA*
- TP 220 **Quantification of Target Phosphatidylethanolamine and Monogalactosyldiacylglycerol Plant Lipids using Flow Injection Analysis and Selected Reaction**

POSTER SPACE

- Monitoring;** Michael C. Stagliano; Terry Ball; A. Daniel Jones; *Michigan State University, East Lansing, MI*
- TP 221 **Analysis of Urinary Nucleosides in Cancer Patients under Therapeutic Acupuncture Treatment by LC-MS;** Byoung Joon Ko<sup>1</sup>; Kyung-Rae Kim<sup>2</sup>; Jennifer S. Brodbelt<sup>1</sup>; <sup>1</sup>*UT-Austin, Austin, TX*; <sup>2</sup>*Sungkyunkwan University, Suwon, South Korea*
- TP 222 **Simultaneous Measurement of Rat Serum Metabolites using Nanoelectrospray LC-MS and Coulometric Detection;** Susan Schiavo<sup>1</sup>; Wayne Matson<sup>2</sup>; Bruce S. Kristal<sup>3</sup>; Paul Vouros<sup>1</sup>; <sup>1</sup>*Northeastern University, Boston, MA*; <sup>2</sup>*Bedford VA, Bedford, MA*; <sup>3</sup>*Harvard School of Public Health, Boston, MA*
- TP 223 **Discovery of Dopamine Glucuronide in Brain Microdialysis Samples using Liquid Chromatography Tandem Mass Spectrometry;** P ivi Susanna Uutela; Laura Karhu; Petteri Piepponen; Raimo A. Ketola; Risto Kostiaainen; *University of Helsinki, Helsinki, Finland*

**DRUG METABOLISM: HIGH THROUGHPUT  
224 - 237**

- TP 224 **High Throughput Metabolic Stability Screening with MALDI Triple Quadrupole Mass Spectrometry;** Tim Hoffman; Feng Zhong; Hesham Ghobarah; George Scott; Daniel Lebre; Jay Corr; *Applied Biosystems/MDS Sciex, Concord, Canada*
- TP 225 **Reducing Analysis Times for High Throughput Metabolite Identification using High Flow LC/MS/MS;** Elliott Jones<sup>1</sup>; Robert Cambell<sup>2</sup>; Tania A Sasaki<sup>1</sup>; <sup>1</sup>*Applied Biosystems, Foster City, CA*; <sup>2</sup>*Theravance, South San Francisco, CA*
- TP 226 **Speed Up of the Identification of the Metabolites of Citalopram using LC/MS/MS and in silico Prediction;** Sian Ives<sup>1</sup>; Klaus Gjervig-Jensen<sup>2</sup>; Nicole McSweeney<sup>1</sup>; <sup>1</sup>*Lhasa Limited, Leeds, United Kingdom*; <sup>2</sup>*Lundbeck A/S, Copenhagen, Denmark*
- TP 227 **Evaluation of MALDI Triple Quadrupole Mass Spectrometry for High Throughput Drug-drug Interaction Screening;** Feng Zhong; George Scott; Daniel Labre; Hesham Ghobarah; Jay Corr; *Applied Biosystems/MDS Sciex, Concord, Canada*
- TP 228 **Optimisation of a Cytochrome P450 Inhibition Assay with Cassette Incubation, LC-MS/MS Analysis and Automated Data Processing;** Ellen Tasker<sup>1</sup>; Lynn Abernethy<sup>1</sup>; Peter Littlewood<sup>1</sup>; Paul Scullion<sup>1</sup>; Patrick Currie<sup>1</sup>; Paul Harradine<sup>1</sup>; Amy Davies<sup>2</sup>; Ed Sprake<sup>2</sup>; <sup>1</sup>*Organon Biosciences, Lanarkshire, United Kingdom*; <sup>2</sup>*Waters Corporation, Manchester, United Kingdom*
- TP 229 **Increasing Efficiency of the Bioanalytical Screening Laboratory: Concurrent Reactive Metabolite and Time Dependent P450inactivation Decision-Making using an Assay Consolidation Approach;** Sabrina Zhao; Amit Kalgutkar; John Soglia; *Pfizer Inc, Groton, CT*
- TP 230 **Post-Extraction Dilution Approach Extended Linear Dynamic Range for Quantitative Bioanalysis by Liquid Chromatography-Tandem Mass Spectrometry;** Xiaodong Zhu; Austin C. Li; Wilson Z. Shou; Lisa Magis; Dennis Alton; Natasha Dow; *Covance Laboratory, Inc., Madison, WI*
- TP 231 **Systematic Metabolite Profiling of Drug Discovery Compounds in Plasma Samples using Liquid Chromatography/ Quadrupole-linear Ion Trap Mass**

TUESDAY POSTERS

POSTER SPACE

- TP 232 **Spectrometric Methods; Yunsheng Hsieh;** Fangbiao Li; Walter Korfmacher; *Schering-Plough, Kenilworth, NJ*  
**Automated Identification of Unknown Compounds Employing Nano-electrospray LC/MS Coupled with Infusion MS<sup>n</sup> Employing the Concept of Precursor Ion Fingerprinting;** Timothy R Croley<sup>2</sup>; Frederic L. Ciner<sup>2</sup>; Michelle Sheldon<sup>2</sup>; Robert A Everley<sup>2</sup>; Gary Schultz<sup>1</sup>; Ellen Pace<sup>1</sup>; Robert Mistrik<sup>3</sup>; Jack Henion<sup>1</sup>; <sup>1</sup>*Advion BioSciences, Inc, Ithaca, NY;* <sup>2</sup>*Division of Consolidated Lab Services, Richmond, VA;* <sup>3</sup>*HighChem, Bratislava, Slovakia*
- TP 233 **Automated High Throughput LC/MS/MS Strategies for in-vitro Metabolism Workflows: Advantages of Automated Method Development and Quantitative Batch Processing;** Anghony J. Romanelli<sup>1</sup>; James Ferguson<sup>1</sup>; Wen-Chen Hsu<sup>2</sup>; Pengdeth Lim<sup>2</sup>; Huafen Liu<sup>2</sup>; May Young<sup>2</sup>; Jane Huang<sup>2</sup>; Loren Olson<sup>1</sup>; <sup>1</sup>*Applied Biosystems, Framingham, MA;* <sup>2</sup>*Roche, Palo Alto, CA*
- TP 234 **Comprehensive Detection and Characterization of Drug Metabolites in Biological Matrices using a High Resolution Mass Spectrometer LTQ Orbitrap;** Shinki Kawaguchi; Yoshihisa Sano; Raku Shinkyō; Tsutomu Yoshimura; *Eisai Co., Ltd, Tsukuba, Japan*
- TP 235 **Mass Tracking Error Introduced by Automaton Rapid Scanning on Sciex 4000 and a Simple Correction;** Lee A Gorman; Russell H Robins; *Pfizer, Inc., Chesterfield, MO*
- TP 236 **High-Throughput Analysis of Six Silymarin Flavonolignans in Human Plasma by LC-ESI-MS Combining with a 96-Well Protein Precipitation Plate;** Zhiming Wen; Zhiqing Qiao; Roy L. Hawke; Philip C. Smith; *University of North Carolina at Chapel Hill, Chapel Hill, NC*
- TP 237 **A Novel "Peak Parking" Strategy for UPLC-MS/MS Detection for Enhanced Performance of Bioanalytical Assays;** Fumin Li; Jacob Maguigad; Mary Pelzer; Xiangyu Jiang; Qin C. Ji; *Covance Inc., Madison, WI*

**DRUGS: QUANTITATION BY LC/MS**  
238 - 251

- TP 238 **A Sensitive Semi-Automated Method for the Quantification of Calcitriol in Human Plasma by LC-MS/MS;** Roger Coe; Mary Petersen; Anthony Podany; *MDS Pharma Services, Lincoln, NE*
- TP 239 **Importance of Using Extremely High Purity Stable Labeled Internal Standards for Successful LC-MS/MS Bioanalysis;** Fabio Garofolo; Annik Bergeron; Alex Kazandjian; Troy Bradley; *Algorithme Pharma Inc., Laval (Montreal), QC, Canada*
- TP 240 **Development of an On-Column Derivatization Assay for the Quantification of Tenofovir in Human Plasma by LC-MS/MS;** Corey Ohnmacht; Anthony Podany; Roger Coe; *MDS Pharma Services, Lincoln, NE*
- TP 241 **Impact of Plasma Anticoagulant Counterion Choice on Drug Stability and Matrix Effect in LC-MS and LC-MS/MS Method Development;** Melanie Bergeron; Annik Bergeron; Troy Bradley; Fabio Garofolo; *Algorithme Pharma Inc., Laval (Montreal), QC, Canada*
- TP 242 **A Highly Sensitive Method for the Quantitation of Nicotine, Cotinine, and trans-3'-Hydroxycotinine in Human Plasma (EDTA);** Ginny B. James; Kirk Newland; Ridha Nachi; Daryl Grafelman; Chad Briscoe; *MDS Pharma Services, Lincoln, NE*
- TP 243 **Quantitative Determination of Paclitaxel and 6-a-Hydroxy Paclitaxel in Human Plasma by Turbo Ion**

POSTER SPACE

- TP 244 **Spray LC/MS/MS;** Stacey L. Zeman; Sara Jones; Daniel Mulvana; *Advion BioServices, Ithaca, NY*  
**Validation of a Method for Methotrexate and 7-Hydroxymethotrexate in Human Protein-Free Filtrate by LC/MS/MS for Use in Protein Binding Studies;** Sara L Jones; Daniel E Mulvana; *Advion BioServices, Ithaca, NY*
- TP 245
- TP 246 **A Validated Method for Quantitation of Lamotrigine in Human Plasma by Liquid Chromatography/Tandem Mass Spectrometry;** Sharath Bojja; *Allied Research International, Etobicoke, Canada*
- TP 247
- TP 248 **HILIC/MS/MS Quantitation of Plasma Nucleoside 8-hydroxy-2'-deoxyguanosine using 96-well MAX without Solvent Evaporation;** Wenyang Jian; Duxi Zhang; Naidong Weng; *BMS Company, Princeton, NJ*
- TP 249 **Determination of Epinephrine Concentrations in Human Plasma by High Performance Liquid Chromatography with Tandem Mass Spectrometry;** J. Brian Nofsinger<sup>1</sup>; Michael S. Allen<sup>1</sup>; D. Craig Sykes<sup>1</sup>; Mohammad Hamzavi<sup>2</sup>; <sup>1</sup>*Enthalpy Analytical, Inc., Durham, NC;* <sup>2</sup>*Dey, L.P., Napa, CA*
- TP 250 **Automated Liquid-Liquid Extraction of Dihydroergotamine in Human Plasma with Quantitation by HPLC-Tandem Mass Spectrometry;** Jason Heidrich; Melissa J. Meyer; Yufen Zhang; Laura V. Baum; Andrew M. Osenga; Dan J. Aufman; Ardeshir Khadang; *PRACS Institute Ltd., Fargo, ND*
- TP 251 **Quantitation of Triapine in Human Plasma by a Highly Sensitive LC-MS/MS Assay;** Chen Ren<sup>1</sup>; Zhongfa Liu<sup>1</sup>; Tanios Bekaii-Saab<sup>2</sup>; Mitch Phelps<sup>1</sup>; Kenneth K. Chan<sup>3</sup>; <sup>1</sup>*College of Pharmacy, The Ohio State University, Columbus, OH;* <sup>2</sup>*College of Medicine and Public Health, OSU, Columbus, OH;* <sup>3</sup>*College of Pharmacy & Medicine Public Health, OSU, Columbus, OH*

**SMALL MOLECULES: PHARMA FOCUS**  
252 - 266

- TP 252 **Structure Elucidation of Sildenafil Analogues by MSn and Accurate Mass Measurement;** Yusuke Inohana<sup>1</sup>; Ichiro Hirano<sup>1</sup>; Shinichi Yamaguchi<sup>1</sup>; Kiyomi Arakawa<sup>1</sup>; Simon Ashton<sup>2</sup>; Neil Loftus<sup>2</sup>; John Warrander<sup>2</sup>; <sup>1</sup>*Shimadzu corporation, Kyoto, JAPAN;* <sup>2</sup>*Shimadzu ISS, Manchester, UK*
- TP 253 **Study of Free Radical Cations Generated from ESI-CID-MS/MS of Small Molecule Drugs Using LTQ and Orbitrap Mass Spectrometers;** Guifen Xu<sup>1</sup>; Wotang Huang<sup>1</sup>; Jennifer Zhang<sup>2</sup>; Thomas D. McClue<sup>2</sup>; Miao Shichang<sup>1</sup>; <sup>1</sup>*Amgen, South San Francisco, CA;* <sup>2</sup>*Thermo Scientific, San Jose, CA*
- TP 254 **Simultaneous Quantification of Malononitrilamide (FK778) and Its Metabolites M1 and M3 in Mouse Plasma by LC-MS/MS;** Yu-Luan Chen<sup>1</sup>; Shahzad Akhtar<sup>1</sup>; Kenji Tabata<sup>2</sup>; Ala M Alak<sup>1</sup>; Masakazu Kobayashi<sup>3</sup>; <sup>1</sup>*Astellas Pharma US, Inc., Evanston, IL;* <sup>2</sup>*Astellas Pharma Inc., Tokyo, Japan;* <sup>3</sup>*Astellas Research Institute of America, Evanston, IL*
- TP 255 **Rapid Analysis of Pharmaceuticals and their Metabolites with Atmospheric Pressure Infrared MALDI Mass Spectrometry;** Bindesh Shrestha; Yue Li; Akos Vertes; *George Washington University, Washington, DC*



TUESDAY POSTERS

POSTER SPACE

- TP 256 **A Novel Approach to Structural Elucidation and Root Cause Analysis of Pharmaceutical Impurities and Degradation Products Using UPLC-Q-ToF Pseudo-MS<sup>3</sup>**; Esther S Hwang; Samantha A Leidner; Christopher M McGinley; Oystein Loe; Paul M. Bigwarfe Jr; *Hospira, Inc., Lake Forest, IL*
- TP 257 **Laser Induced Silicon Microcolumn Arrays as a Matrix-Free Platform for the Analysis of Pharmaceuticals by Soft Laser Desorption/Ionization Mass Spectrometry**; Bennett N. Walker; Akos Vertes; *The George Washington University, Washington, DC*
- TP 258 **Identification of Organic Acids in Pharmaceutical Tablets by GC-MS and LC-MS/MS**; Ian P Collin; Jean-Claude Wolff; *GlaxoSmithKline, Stevenage, UK*
- TP 259 **Structural Identifications of Mometasone Furoate Steroid Related Impurities in a LTQ-Orbitrap Hybrid Mass Spectrometer**; Guodong Chen; Ibrahim Daaro; Birendra N. Pramanik; *Schering-Plough Research Institute, Kenilworth, NJ*
- TP 260 **Automatic Generation of Extracted Ion Chromatograms for Mass Ion Peaks with Specific Isotope Patterns**; Jiyuan Ma<sup>1</sup>; Zhe-Ming Gu<sup>1</sup>; Ming Gu<sup>2</sup>; Yongdong Wang<sup>2</sup>; *<sup>1</sup>XenoBiotic Laboratories, Inc, Plainsboro, NJ; <sup>2</sup>Cerno Bioscience LLC, Danbury, CT*
- TP 261 **Identification of the Impurities of Budesonide Using Small Particle Liquid Chromatography and Q-ToF Mass Spectrometry**; Warren Potts III; Michael Jones; Robert Plumb; *Waters Corporation, Milford, MA*
- TP 262 **Use of GC-MS and LC-MS as Complementary Techniques for Unambiguous Accurate Mass Identification of Two Unknown Development Compound Impurities**; K. Wayne Taylor; Matthew Clemens; *Lilly, Indianapolis, IN*
- TP 263 **Characterization of a Major Degradation Product of Phenylephrine in Pharmaceutical Formulations against Common Cold by LC/MS/MS and Tandem FTICR-MS Analysis**; Li-kang Zhang<sup>1</sup>; Jesse Wong<sup>1</sup>; Leonard Wiseman<sup>2</sup>; Shamim Al-Mamoon<sup>2</sup>; Thomas Cooper<sup>2</sup>; Tze-Ming Chan<sup>1</sup>; Birendra Pramanik<sup>1</sup>; *<sup>1</sup>Schering-Plough Research Inst., Kenilworth, NJ; <sup>2</sup>Schering-Plough HealthCare Products, Memphis, TN*
- TP 264 **Identification of an Unknown Peak in Clarinex Tablets by LC-MS<sup>n</sup>: The Identified Unknown Peak Was Found from Lab Contamination**; Mingxiang Lin; Min Li; Robert Markovich; Abu Rustum; *Schering-Plough Corporation, Union, NJ*
- TP 265 **Structural Characterization of Metoclopramide Radiolysis Products by LC-MS-MS**; Jean-Louis Habib Jiwani<sup>1</sup>; Aubert Maquille<sup>2</sup>; Tilquin Bernard<sup>2</sup>; *<sup>1</sup>Université catholique de Louvain, Louvain La Neuve, Belgium; <sup>2</sup>UCL, Woluwé, Belgium*
- TP 266 **Walk-Up Time-of-Fight Technology for the Process Organic Chemist: A Robust, User-Friendly, System for Accelerating Pharmaceutical Process Development**; Edward M. Sheldon; Todd A. Gillespie; Neil J. Kallman; *Lilly, Indianapolis, IN*

**PEPTIDES: POST TRANSLATIONAL MODIFICATIONS II  
267 - 284**

- TP 267 **Characterization of O-Linked Glycopeptides and Glycation using ETD/CID (Electron Transfer/Collision Induced Dissociation) with Linear Ion Trap Mass Spectrometry**; Bao-jen Shyong; Oleg Borisov; Victor Ling; *Genentech, Inc, S. San Francisco, CA*

POSTER SPACE

- TP 268 **Shotgun Proteomic Profiling of Histone Isoforms in Chronic Lymphocytic Leukemia by Use of Chemical Derivatization**; Mitchell Meade; Michael A Freitas; Mark R Parthun; David M Lucas; Amy R Knapp; Amy R Knapp; John C Byrd; *Ohio State University, Columbus, OH*
- TP 269 **Unambiguous Determination of Isobaric Modifications by LC-MS and High Mass Accuracy**; Lanhao Yang<sup>1</sup>; Shengjiang Tu<sup>1</sup>; Chen Ren<sup>2</sup>; Chun-Lin Lia<sup>3</sup>; Ming-Daw Tsai<sup>3</sup>; Michael A. Freitas<sup>4</sup>; *<sup>1</sup>Department of Chemistry; <sup>2</sup>College of Pharmacy and CBO; <sup>3</sup>Genomics Center, Academia Sinica, Taipei, Taiwan; <sup>4</sup>Human Cancer Genetics, The Ohio State University, Columbus, OH*
- TP 270 **High Resolution Mass Spectrometry Study of Chemical and Environmental Stimuli on the Post Translational State of Histone H4**; C. Logan Mackay<sup>1</sup>; Stefan Weidt<sup>1</sup>; Bernard Ramsahoye<sup>2</sup>; Nick Gilbert<sup>2</sup>; Ted Hupp<sup>2</sup>; Pat Langridge-Smith<sup>1</sup>; R. Larry Hayward<sup>2</sup>; *<sup>1</sup>University of Edinburgh, Edinburgh, Scotland; <sup>2</sup>Edinburgh Cancer Centre, Edinburgh, Scotland*
- TP 271 **Large Scale Deamidation Detection and Quantification in Aged Lens Tissues**; Surendra Dasari; Phillip A. Wilmarth; D. Leif Rustvold; Ashok P. Reddy; Srinivasa R. Nagalla; Larry L. David; *School of Medicine, Oregon Health & Science Univ, Portland, OR*
- TP 272 **Protein Digestion by Endoproteinase AspN for Improved Localization of Protein Modifications by Peptide End-specific Marker Ions**; Dominic Winter; Wolf D. Lehmann; *German Cancer Research Center, Heidelberg, Germany*
- TP 273 **Screening and Sequencing of Glycated Proteins by Neutral Loss Scan LC/MS/MS on Q-ToF Type Mass Spectrometers**; Himanshu Gadgil; Pavel Bondarenko; Michael Treuheit; Da Ren; *Amgen, Thousand Oaks, CA*
- TP 274
- TP 275 **Mining Shotgun Proteomic Data for the Role of Post-Translational Modifications in the Adaptive Response of *Shewanella oneidensis* to Chromate Exposure**; Melissa Thompson<sup>1</sup>; Dorothea Thompson<sup>3</sup>; Robert Hettich<sup>2</sup>; *<sup>1</sup>University of Tennessee-Knoxville, Knoxville, TN; <sup>2</sup>Oak Ridge National Laboratory, Oak Ridge, TN; <sup>3</sup>Purdue University, West Lafayette, IN*
- TP 276 **Characterization of  $\gamma$ -Carboxyglutamate-Containing Peptides using CAD MS-MS**; Kevin Van Cott; Anna Oommen; *UNL Biological Process Development Facility, Lincoln, NE*
- TP 277 **Analysis of Glycopeptides Using ECD Combined with TOF Mass Spectrometer**; Naomi Manri<sup>1</sup>; Kisaburo Deguchi<sup>2</sup>; Yuki Ito<sup>2</sup>; Takashi Baba<sup>1</sup>; Atsumu Hirabayashi<sup>1</sup>; Hiroyuki Satake<sup>1</sup>; Toshiyuki Yokosuka<sup>1</sup>; *<sup>1</sup>Hitachi, Ltd., Kokubunji, Japan; <sup>2</sup>Hokkaido university, Sapporo, Japan*
- TP 278 **A New LC-MS approach Combining CID, ETD, and CID of Charge-Reduced Species for Trace-level Characterization of Proteins with Post-Translational Modifications**; Shiaw-lin Wu<sup>1</sup>; Andreas F.R. Hühmer<sup>2</sup>; Zhiqi Hao<sup>2</sup>; Barry L. Karger<sup>1</sup>; *<sup>1</sup>Northeastern University, Boston, MA; <sup>2</sup>Thero Fisher Scientific, San Jose, CA*
- TP 279 **High-Throughput Mapping of Ubiquitination Sites on Proteins Using Targeted Mass Spectrometric Approach**; Sahana Mollah<sup>1</sup>; David Arnott<sup>2</sup>; Qui Phung<sup>2</sup>; Ingrid Wertz<sup>2</sup>; Vishva Dixit<sup>2</sup>; Nobuhiko Kayagaki<sup>2</sup>; Jennie Lill<sup>2</sup>; *<sup>1</sup>Applied Biosystems, Foster City, CA; <sup>2</sup>Genentech, South San Francisco, CA*

## TUESDAY POSTERS

**POSTER SPACE**

- TP 280 **Analysis of Human Histone Proteins Following Exposure to Diepoxybutane;** Min-joon Han; Ryan Svoboda; Emine C. Koc; Hasan Koc; *Pennsylvania State University, University Park, PA*
- TP 281 **Enrichment and Analysis of Non-Enzymatically Glycated Peptides: Boronate Affinity Chromatography Coupled with Electron Transfer Dissociation Mass Spectrometry;** Qibin Zhang<sup>1</sup>; Thomas O. Metz<sup>1</sup>; Ning Tang<sup>2</sup>; Jonathan W. C. Brock<sup>3</sup>; Heather M. Mottaz<sup>1</sup>; Richard D. Smith<sup>1</sup>; <sup>1</sup>*Pacific Northwest National Laboratory, Richland, WA*; <sup>2</sup>*Agilent Technologies, Santa Clara, CA*; <sup>3</sup>*University of South Carolina, Columbia, SC*
- TP 282 **O-Linked N-acetylglucosamine (O-GlcNAc) Post-Translational Modification Analysis Using High Energy CID on a Tandem TOF/TOF Mass Spectrometer with Curved Field Reflectron;** Dwella Moton Nelson; Zihao Wang; Kaoru Sakabe; Gerald W. Hart; Robert J. Cotter; *Johns Hopkins University School of Medicine, Baltimore, MD*
- TP 283 **Characterization of N-Linked Glycopeptides with Ion Trap MS using ETD and CID;** Manfred Wuhrer<sup>1</sup>; M. Isabel Catalina<sup>1</sup>; Carolien A. M. Koeleman<sup>1</sup>; André M. Deelder<sup>1</sup>; Markus Lubeck<sup>2</sup>; Carsten Baessmann<sup>2</sup>; <sup>1</sup>*Leiden University Medical Center, Leiden, The Netherlands*; <sup>2</sup>*Bruker Daltonik GmbH, Bremen, Germany*
- TP 284 **Collision Induced Dissociation-based Characterization of the Antimicrobial Peptide-Nucleotide Microcin C7-C51 by Electrospray-ionization/Desorption Mass Spectrometry;** Vanessa Petit<sup>1</sup>; Severine Zirah<sup>1</sup>; Sylvie Rebuffat<sup>1</sup>; Jean-Claude Tabet<sup>2</sup>; <sup>1</sup>*Museum National d'Histoire Naturelle UMR5154 CNRS, Paris, France*; <sup>2</sup>*Université Pierre et Marie Curie UMR7613 CNRS, Paris, France*

**IMAGING APPLICATIONS: PROTEOMICS  
285 - 299**

- TP 285 **MALDI-MS Imaging of Neurological Disorders;** Richard J A Goodwin; Stuart R Cobb; Hilary V Carswell; Susan M Cochran; Andrew R Pitt; *University of Glasgow, Glasgow, United Kingdom*
- TP 286 **Characterizing Neuronal Cells in Microfluidic Devices using Mass Spectrometric Imaging;** Kyubong Jo; Michael Heien; Ming Zhong; Elena Romanova; Jonathan Sweedler; *University of Illinois Urbana Champaign, Urbana, IL*
- TP 287 **Protein Profiling at the Tumour:Liver Margin in Colorectal Liver Metastasis using MALDI-Mass Spectrometry Imaging;** Marie-Claude Djidja<sup>1</sup>; Vikki Carolan<sup>1</sup>; Ali Majeed<sup>2</sup>; David Mangnall<sup>2</sup>; Nigel Bird<sup>2</sup>; Malcolm Clench<sup>1</sup>; <sup>1</sup>*Sheffield Hallam University, Sheffield, United Kingdom*; <sup>2</sup>*Royal Hallamshire Hospital, Sheffield, United Kingdom*
- TP 288 **Correlation of Drug Distribution and Proteome Response in Tissue by Imaging MALDI Mass Spectrometry;** Sara L. Frappier; Sheerin Khatib-Shahidi; Richard M. Caprioli; *Vanderbilt University, Nashville, TN*
- TP 289 **Imaging Mass Spectrometry for the Investigation of Molecular Events Involving Lithium Protection Against Radiation;** Sheerin Khatib-Shahidi; Dinesh Thotala; Eugenia M. Yazlovitskaya; Dennis E. Hallahan; Richard M. Caprioli; *Vanderbilt University, Nashville, TN*

**POSTER SPACE**

- TP 290 **A Multi-faceted Approach to the Mass Spectrometric Imaging of Spinal Cord Sections;** Eric B. Monroe<sup>1</sup>; Jenna L. Losh<sup>1</sup>; Nathan G. Hatcher<sup>1</sup>; Stanislav S. Rubakhin<sup>1</sup>; Howard B. Gutstein<sup>2</sup>; Jonathan V. Sweedler<sup>1</sup>; <sup>1</sup>*University of Illinois, Champaign, IL*; <sup>2</sup>*UT-MD Anderson Cancer Center, Houston, TX*
- TP 291 **Association of L-MALDI TOF Proteomics with Apoptosis in PC3 Induced mice Tumor;** Doris Terry; Rakesh Sharma; *Florida State University, Tallahassee, FL*
- TP 292 **MALDI Tissue Profiling of Integral Membrane Proteins;** Angus C Grey; Danielle B Thibault; Kevin L Schey; *Medical University of South Carolina, Charleston, SC*
- TP 293 **Monitoring Mouse Prostate Development by Profiling and Imaging Mass Spectrometry;** Pierre Chaurand<sup>1</sup>; Mohammed A. Rahman<sup>1</sup>; Tamela Hunt<sup>1</sup>; James A. Mobley<sup>2</sup>; Susan Kasper<sup>1</sup>; Richard M. Caprioli<sup>1</sup>; <sup>1</sup>*Vanderbilt University, Nashville, TN*; <sup>2</sup>*University of Alabama in Birmingham, Birmingham, AL*
- TP 294 **High Resolution MALDI MS Profiling and Imaging of Neuronal Tissues for Differential Display of Neuropeptides;** Lingjun Li; Stephanie S. DeKeyser; Joshua J. Schmidt; Ruibing Chen; Mingming Ma; *University of Wisconsin, Madison, WI*
- TP 295 **Following Temporal Biological Processes using Imaging MALDI MS: Implantation and Early Embryo Growth in Mice;** Kristin E. Burnum; Susanne Tranguch; S.K. Dey; Richard M. Caprioli; *Vanderbilt University, Nashville, TN*
- TP 296 **MALDI Tissue Imaging of Peptides and Proteins in Plants;** Barbara Leinweber<sup>1</sup>; David W. Galbraith<sup>2</sup>; Paul J. Kowalski<sup>3</sup>; Ravishankar Palanivelu<sup>2</sup>; Frans Tax<sup>3</sup>; Serrine S. Lau<sup>4</sup>; <sup>1</sup>*University of Arizona, Tucson, AZ*; <sup>2</sup>*Plant Sciences, University of Arizona, Tucson, AZ*; <sup>3</sup>*Bruker Daltonics, Billerica, MA*; <sup>4</sup>*School of Pharmacy, University of Arizona, Tucson, AZ*; <sup>5</sup>*Molecular and Cell Biology, University of Arizona, Tucson, AZ*
- TP 297 **Imaging Mass Spectrometry of Breast Cancer Tissue : Application and New Developments;** Ron M.A. Heeren<sup>1</sup>; Erika R. Amstalden<sup>1</sup>; Martin Froesch<sup>1</sup>; Ivo Klinkert<sup>1</sup>; Tiffany R. Greenwood<sup>2</sup>; Kristine Glunde<sup>2</sup>; <sup>1</sup>*FOM Inst. Atomic/Molecular Physics, Amsterdam, Netherlands*; <sup>2</sup>*Johns Hopkins University School of Medicine, Baltimore, MD*
- TP 298 **Profiling ALS Mouse Brain Proteome at Cellular Resolution by MALDI MSI;** Satish K Murari<sup>1</sup>; Nathalie YR Agar<sup>2</sup>; Jeffrey N Agar<sup>1</sup>; <sup>1</sup>*Brandeis University, Waltham, MA*; <sup>2</sup>*Harvard Medical School, Boston, MA*
- TP 299 **From Direct Tissue Analysis to Tissue Validation by Mass Spectrometry of Ovary Cancer Biomarkers Hunting;** Jonathan Stauber<sup>1</sup>; Remi Lemaire<sup>1</sup>; Maxence Wisztorski<sup>1</sup>; Sonia Ait Menguellet<sup>1</sup>; Pierre Collinet<sup>3</sup>; Jean Pierre Lucot<sup>3</sup>; Denis Vinatier<sup>3</sup>; Annie Desmons<sup>1</sup>; Michel Deschamps<sup>2</sup>; Gottfried Proess<sup>2</sup>; Ivo Rudlof<sup>2</sup>; Michel Salzet<sup>1</sup>; Isabelle Fournier<sup>1</sup>; <sup>1</sup>*MALDI Imaging Team, FRE CNRS 2933, USTL, villeneuve d'ascq, RANCE*; <sup>2</sup>*EUROGENTEC, Eurogentec Biologics Department, Liege, Belgium*; <sup>3</sup>*Jeanne de Flandres Hospital, Lille, France*

**PROTEOMICS QUANTITATIVE: STABLE ISOTOPE LABELING II  
300 - 309**

- TP 300 **Quantitative Proteomic and Transcriptomic Analysis of Neuroblastomas;** Li-Rong Yu<sup>1</sup>; Young K. Song<sup>2</sup>; Jun

TUESDAY POSTERS

POSTER SPACE

- S. Wei<sup>2</sup>; Qing-Rong Chen<sup>2</sup>; Steffen Durinck<sup>3</sup>; Timothy D. Veenstra<sup>1</sup>; Javed Khan<sup>2</sup>; <sup>1</sup>SAIC-Frederick, Frederick, MD; <sup>2</sup>National Cancer Institute, Bethesda, MD; <sup>3</sup>K. U. Leuven, Leuven, Belgium
- TP 301 **Effect of TNF-alpha on ARPE-19 for Differential Protein Expression;** Eunkyung An; Joseph Lin; Heather Gordish-Dressman; Yetrib Hathout; *Children's National Medical Center, Washington, DC*
- TP 302 **Quantitative Plant Proteomics: A Double Standard Study using Difference in Gel Electrophoresis and <sup>15</sup>N-labeling Combined with Mass Spectrometry;** Bettina Warscheid<sup>2</sup>; Romano Hebel<sup>2</sup>; Kai Reidegeld<sup>2</sup>; Paul P. Dijkwel<sup>1</sup>; Marcel J.G. Sturre<sup>1</sup>; Martin Eisenacher<sup>2</sup>; Christian Stephan<sup>2</sup>; Hemut E. Meyer<sup>2</sup>; <sup>1</sup>University of Groningen, Groningen, The Netherlands; <sup>2</sup>Ruhr-University Bochum, Bochum, Germany
- TP 303 **Quantitation of Rapamycin Effects in Yeast by Shotgun Proteomics;** Marjorie Fournier; Christopher Seidel; Karin Zueckert-Gaudenz; Norman Pavelka; Mihaela Sardu; Laurence Florens; Michael Washburn; *Stowers Institute for Medical Research, Kansas City, MO*
- TP 304 **2-MEGA: An Optimized Protocol for Determining Differential Protein Expression using Guanidination and Isotopic Dimethylation Labeling;** Andy Lo; Chengjie Ji; Liang Li; *University of Alberta, Edmonton, Canada*
- TP 305 **Multiplex Quantitative Proteomic Differential Analysis of Treated Macrophage Cells: Combining Label-free Peak Alignment and iTRAQ Labeling for Differential Quantification;** Jeremiah Tipton<sup>1</sup>; Brown Joseph<sup>2</sup>; Dharsee Moyez<sup>3</sup>; Stewart Ian<sup>3</sup>; Ewing Rob<sup>3</sup>; Goodenhow Maureen<sup>2</sup>; Busby Jennifer<sup>1</sup>; <sup>1</sup>Scripps Florida, Jupiter, FL; <sup>2</sup>University of Florida, Gainesville, FL; <sup>3</sup>Infochromics, Toronto, Ontario, Canada
- TP 306 **Study of Mycobacterial Lipid Mediated Macrophage Response via Double Standards in Quantitative Proteomics;** Wenqing Shui<sup>1</sup>; Sarah Gilmore<sup>1</sup>; Jun Liu<sup>3</sup>; Jay Keasling<sup>2</sup>; Carolyn Bertozzi<sup>1</sup>; <sup>1</sup>Department of Chemistry, UC Berkeley, Berkeley, CA; <sup>2</sup>Department of Chemical Engineering, UC Berkeley, Berkeley, CA; <sup>3</sup>Bayer HealthCare LLC, Berkeley, CA
- TP 307 **Improving Peptide Identification through Complementary Approaches: Using SILAC Labeling Compared to Complementary Fragmentation Techniques;** Michael L. Nielsen<sup>1</sup>; Mikail M. Savitski<sup>2</sup>; Lyris F. de Godoy<sup>1</sup>; Jesper V. Olsen<sup>1</sup>; Roman A. Zubarev<sup>2</sup>; Matthias Mann<sup>1</sup>; <sup>1</sup>Max-Planck-Institute for Biochemistry, Martinsried (near Munich), Germany; <sup>2</sup>Biological and Medical Mass Spectrometry, Uppsala, Sweden
- TP 308 **ANIBAL – ANiline-Benzoic Acid Labeling: Universal, Stable-Isotope Based Quantitative Proteomics Targeting Amino and Carboxylic Groups of Intact Proteins;** Alexandre Panchaud<sup>1</sup>; Jenny Hansson<sup>2</sup>; Michael Affolter<sup>2</sup>; Rachid Bel Rhlid<sup>2</sup>; Philippe Moreillon<sup>1</sup>; Martin Kussmann<sup>2</sup>; <sup>1</sup>Faculty of Biology and Medicine, Univ. of Lausanne, Lausanne, Switzerland; <sup>2</sup>Nestle Research Center, Lausanne, Switzerland
- TP 309 **Gene Function Analysis in Drosophila by RNAi-SILAC-Based Quantitative Proteomics;** Tiziana Bonaldi<sup>1</sup>; Jürgen Cox<sup>1</sup>; Tobias Straub<sup>2</sup>; Chanchal Kumar<sup>1</sup>; Peter Becker<sup>2</sup>; Matthias Mann<sup>1</sup>; <sup>1</sup>Max Planck

POSTER SPACE

*Institute of Biochemistry, Munich, Germany; <sup>2</sup>Adolf Butenandt-Institute, LMU, Munich, Germany*

**PROTEOMICS: LABEL FREE QUANTITATION  
310 - 316**

- TP 310 **Isotope-Free Relative Quantification for Much Improved Dynamic Range;** John M Asara<sup>1</sup>; Heather R Christofk<sup>1</sup>; Lisa M Freimark<sup>1</sup>; Atsuo Sasaki<sup>1</sup>; Lewis C Cantley<sup>1</sup>; <sup>1</sup>Beth Israel Deaconess Medical Center, Boston, MA; <sup>2</sup>Harvard Medical School, Boston, MA
- TP 311 **A Label-Free Quantitation Method for Ion-Trap/High-Resolution Hybrid Instruments;** Shenheng Guan<sup>1</sup>; Juan Osés-Prieto<sup>1</sup>; Feixia Chu<sup>1</sup>; Yingying Huang<sup>2</sup>; David A. Maltby<sup>1</sup>; Alma L. Burlingame<sup>1</sup>; <sup>1</sup>University of California, San Francisco, CA; <sup>2</sup>ThermoFisher, San Jose, CA
- TP 312 **Proteomics Studies of Axonal Transport in Motor Neurons;** Zhenyu Huang; Anna-Lena Strom; Jianjun Zhai; Renee Kilty; Haining Zhu; *University of Kentucky, Lexington, KY*
- TP 313 **Quantitative Proteomic Analysis of Fanconi Anemia Complementation Type C Deficient MEFs in Response to Oxidative Condition Using Label-Free LC/MS Method;** Mu Wang; *Indiana University, Indianapolis, IN*
- TP 314 **Nano-LC, dual channel (Cy3, Cy5) Laser Induced Fluorescence Detector and nanoESI-hQh-FT-ICR-MS for Quantitative Proteomics;** Caroline Tokarski<sup>1</sup>; Jocelyne Tahar<sup>2</sup>; Christian Rolando<sup>1</sup>; <sup>1</sup>Univ. des Science/Tech de Lille, Villeneuve d'Ascq, France; <sup>2</sup>Picometrics, Toulouse, France
- TP 315 **Large Scale Proteome and PTM Analysis of Arabidopsis by LTQ-Orbitrap MS; Comparison of Cell Lysate and the Plastid Organelle;** Boris Zybaylov; Qi Sun; Giulia Friso; Verence Ramirez-Rodriguez; Heidi Rutschow; Klaas van Wijk; *Cornell University, Ithaca, NY*
- TP 316 **Quantitative Profiling of Protein Phosphorylation by Label-Free LC/MS;** Chia-Feng Tsai<sup>1</sup>; Hsin-Hung Huang<sup>2</sup>; Yet-Ran Chen<sup>2</sup>; Yu-Ju Chen<sup>2</sup>; <sup>1</sup>National Taiwan Normal University, Taipei, Taiwan; <sup>2</sup>Institute of Chemistry, Academia Sinica, Taipei, Taiwan

**PROTEOMICS: QUANTITATION  
317 - 324**

- TP 317 **Extracting more Information from Shotgun Proteomics Data Sets by Learning Peptide Detectability;** Randy J. Arnold; Pedro Alves; David E. Clemmer; Milos V. Novotny; James P. Reilly; Haixu Tang; Predrag Radivojac; *Indiana University, Bloomington, IN*
- TP 318 **Plasma Proteomics of Colon Cancer Patients - Individual Regulation of Protein Isoforms Identified by the ICPL TRIPLEX Technology;** Eva-Maria Keidel<sup>1</sup>; Achim Brunner<sup>1</sup>; Thomas M. Halder<sup>2</sup>; Detlev Suckau<sup>3</sup>; Silke Martin<sup>4</sup>; Josef Kellermann<sup>1</sup>; Friedrich Lottspeich<sup>1</sup>; <sup>1</sup>MPI of Biochemistry, Martinsried, Germany; <sup>2</sup>Toplab GmbH, Martinsried, Germany; <sup>3</sup>Bruker Daltonik GmbH, Bremen, Germany; <sup>4</sup>Blood Donor Centre Bavarian Red Cross, Munich, Germany
- TP 319 **Analysis of Leukocyte Extract from the American Alligator (*Alligator mississippiensis*) using Gel Electrophoresis and Nano Liquid Chromatography with Mass Spectrometry;** Lancia N.F. Darville<sup>1</sup>; Mark E. Merchant<sup>2</sup>; Kermit K. Murray<sup>1</sup>; <sup>1</sup>Louisiana State University, Baton Rouge, LA; <sup>2</sup>McNeese State University, Lake Charles, LA

TUESDAY POSTERS

POSTER SPACE

- TP 320 **Rapid Simultaneous Identification and Relative Quantitation of Proteins Separated by Gel Electrophoresis;** Valerie Cavett; Jeremiah D. Tipton; Scott A. Busby; Jennifer Caldwell Busby; *The Scripps Research Institute, Scripps Florida, Jupiter, FL*
- TP 321 **Variations of the *Arabidopsis thaliana* Mitochondrial Proteome assessed by Chip-Based Nano LC and Q-TOF Mass Spectrometry and DIGE;** Nicolas L Taylor<sup>1</sup>; Chun Pong Lee<sup>1</sup>; Thomas Hennessy<sup>2</sup>; Joshua L Heazlewood<sup>1</sup>; A. Harvey Millar<sup>1</sup>; <sup>1</sup>*ARC Centre of Excellence in Plant Energy Biology, Perth, Australia*; <sup>2</sup>*Agilent Technologies, Melbourne, Australia*
- TP 322 **Comprehensive Expression Profiling and Trace-level Identification of Unlabeled Peptides Ions in 2DLC-MS Proteomics Experiments using Integrated Detection and Clustering Software;** Eric Bonneil<sup>1</sup>; Gagandeep Jaitly<sup>1</sup>; Navdeep Jaitly<sup>2</sup>; Christelle Pomies<sup>1</sup>; Pierre Thibault<sup>1</sup>; <sup>1</sup>*IRIC-Universite de montreal, Montreal, Canada*; <sup>2</sup>*Pacific Northwest National Laboratory, Richland, WA*
- TP 323 **Rapid and Novel Method for Differential Proteomic Data Quality Evaluation;** Jiri Adamec<sup>1</sup>; Catherine P. Riley<sup>2</sup>; Sulma I. Mohammed<sup>2</sup>; Charles Buck<sup>1</sup>; <sup>1</sup>*Bidley Bioscience Center - Purdue University, West Lafayette, IN*; <sup>2</sup>*Purdue University, West Lafayette, IN*
- TP 324 **Identification and Quantification of Unknown, Spiked Proteins within a Highly Complex Protein Mixture by using the ICPL TRIPLEX Technology;** Thomas M. Halder<sup>1</sup>; Conny Ciosto<sup>2</sup>; Michael Kersten<sup>1</sup>; Dominik Dosch<sup>2</sup>; Eva-Maria Keidel<sup>2</sup>; Monika Zobawa<sup>2</sup>; Achim Brunner<sup>2</sup>; Josef Kellermann<sup>2</sup>; Friedrich Lottspeich<sup>2</sup>; <sup>1</sup>*TopLab GmbH, Martinsried D-82152, Germany*; <sup>2</sup>*Max-Planck-Institute for Biochemistry, Martinsried D-82152, Germany*

**PROTEIN CONFORMATION II**  
325 - 349

- TP 325 **Gas-phase Structures of Large Human Transthyretin Aggregates: Evidence from Ion Mobility Mass Spectrometry;** Suk-Joon Hyung; Brandon T. Ruotolo; Carol V. Robinson; *Department of Chemistry, University of Cambridge, Cambridge, United Kingdom*
- TP 326 **H/D Exchange Mass Spectrometric Studies of p38 MAP Kinase With Inhibitor SB203580;** Susan L. Chen<sup>1</sup>; Kyle Asmus<sup>2</sup>; Melissa Brock<sup>2</sup>; Sheng Li<sup>2</sup>; Virgil L. Woods, Jr.<sup>2</sup>; Roland S. Annan<sup>1</sup>; <sup>1</sup>*GlaxoSmithKline, King of Prussia, PA*; <sup>2</sup>*University of California, San Diego, La Jolla, CA*
- TP 327 **Conformational Changes and Chemical Reactivity of the Ribosome: An Application of Limited Proteolysis and Matrix-assisted Laser Desorption/Ionization Mass Spectrometry;** Daisy-Malloy Hamburg<sup>1</sup>; MooJin Suh<sup>2</sup>; Patrick A. Limbach<sup>1</sup>; <sup>1</sup>*University of Cincinnati, Cincinnati, OH*; <sup>2</sup>*Cornell Weil College Medicine, New York, NY*
- TP 328 **Cap-Free Structure of eIF4E Suggests a Basis for Conformational Regulation by its Ligands;** Nadeem Siddiqui<sup>1</sup>; Laurent Volpon<sup>1</sup>; Michael J Osborne<sup>1</sup>; Ivan Topisirovic<sup>1</sup>; Mike Aguiar<sup>2</sup>; Katherine LB Borden<sup>1</sup>; Bernard F Gibbs<sup>2</sup>; <sup>1</sup>*Dept. of Pathology and Cell Biology, Montreal, Canada*; <sup>2</sup>*Sheldon Biotechnology Center, McGill University, Montreal, Canada*
- TP 329 **Identification of Coactivator Binding Epitopes on Nuclear Receptor Heterodimer Complexes with High Resolution Hydrogen Deuterium Exchange Mass Spectrometry;** Scott A. Busby; Michael J. Chalmers;

POSTER SPACE

- Bruce D. Pascal; Mark R. Southern; Patrick R. Griffin; *Scripps Florida, Jupiter, FL*
- TP 330 **Exploring Protein-Lipid Interaction by Chemical Cross-linking and Mass Spectrometry;** Bill Huang; Hee-Yong Kim; *NIAAA/NIH, Rockville, MD*
- TP 331 **Combining HDX-MS with Molecular Simulations for Drug Discovery;** David Schriemer<sup>1</sup>; Jack Tuszynski<sup>2</sup>; <sup>1</sup>*University of Calgary, Calgary, Canada*; <sup>2</sup>*University of Alberta, Edmonton, Canada*
- TP 332 **Characterizing Denaturation Products of 8 MegaDalton Ribonucleoprotein Vault Complexes Using ESI-IMS;** Shirley H. Lomeli; Catherine S. Kaddis; A. Jimmy Ytterberg; Leonard H. Rome; Joseph A. Loo; *UCLA, Los Angeles, CA*
- TP 333 **The Binding of Human Telomeric Protein TRF2 to DNA as Explored by High Resolution PLIMSTEX and Novel Kinetic Modeling;** Justin Sperry<sup>1</sup>; Don L. Rempel<sup>1</sup>; Xiangguo Shi<sup>2</sup>; Yoshifumi Nishimura<sup>3</sup>; Satoko Akashi<sup>3</sup>; Michael L. Gross<sup>1</sup>; <sup>1</sup>*Washington University in St. Louis, Saint Louis, MO*; <sup>2</sup>*Harvard University, Cambridge, MA*; <sup>3</sup>*Yokohama City University, Tsurumi-ku, Yokohama, Japan*
- TP 334 **HXMS Reveals Conformational and Dynamic Changes Associated with Activation of Lymphocytic Cell Kinase by the Viral Tip Protein;** David D. Weis<sup>1</sup>; Lori A. Emert-Sedlak<sup>2</sup>; Thomas E. Smithgall<sup>2</sup>; John R. Engen<sup>3</sup>; <sup>1</sup>*University of New Mexico, Albuquerque, NM*; <sup>2</sup>*University of Pittsburgh, Pittsburgh, PA*; <sup>3</sup>*The Barnett Institute, Northeastern University, Boston, MA*
- TP 335 **ESI MS Study of Pepsin Inactivation: Implications of Small-scale Protein Conformational Changes for Substrate Binding and Enzymatic Activity;** Agya K. Frimpong; Igor A. Kaltashov; *University of Massachusetts, Amherst, MA*
- TP 336 **Analysis of the pH-Dependent Pore Formation of the Protective Antigen of Anthrax by Protein Oxidative Surface Mapping;** Joshua S. Sharp<sup>1</sup>; Jeffrey F. Kuhn<sup>2</sup>; Kenneth B. Tomer<sup>1</sup>; <sup>1</sup>*National Institute of Environmental Health Science, RTP, NC*; <sup>2</sup>*Varian, Inc. Scientific Instruments, Cary, NC*
- TP 337 **Insights into How the "DNA Baton" is Passed in the BER Pathway, Mapping APE-1 and DNA Polymerase  $\beta$  contacts;** Eizadora Yu; Sara Gaucher; Carmen Pancerella; Ken Sale; Malin Young; Masood Hadi; *Sandia National Laboratories, Livermore, CA*
- TP 338 **Separation of up to 100 Conformers of Large Protein Ions by FAIMS/MS and Approach to their Structural Attribution;** Alexandre A. Shvartsburg<sup>1</sup>; Sergei Noskov<sup>2</sup>; Tadeusz Bryskiewicz<sup>3</sup>; Randall Purves<sup>3</sup>; Richard D Smith<sup>1</sup>; <sup>1</sup>*USDoE PNNL, Richland, WA*; <sup>2</sup>*University of Calgary, Calgary, Canada*; <sup>3</sup>*Thermo Electron, Ottawa, Canada*
- TP 339 **Structural Studies of Human Bile Acid CoA:Amino Acid N-Acyltransferase (hBAT) Using Hydrogen/Deuterium Exchange;** Erin M Shonsey; Matthew B Renfrow; Sebyung Kang; Stephen Barnes; *University of Alabama at Birmingham, Birmingham, AL*
- TP 340 **Domain-Specific Thermodynamic Analysis of Large Multi-Domain Proteins Using SUPREX;** Liangjie Tang<sup>1</sup>; Konstantin Kazarian<sup>2</sup>; John C. Williams<sup>2</sup>; Michael C. Fitzgerald<sup>1</sup>; <sup>1</sup>*Duke University, Durham, NC*; <sup>2</sup>*Thomas Jefferson University, Philadelphia, PA*
- TP 341 **Systematic Fragmentation Analysis of Peptide Complexes Generated by Collision-induced Dissociative Crosslinking Reagents: Implications for**

TUESDAY POSTERS

POSTER SPACE

- TP 342 **Mass Spectrometry-based Protein Structural Studies;** Erik J. Soderblom; Michael B. Goshe; *North Carolina State University, Raleigh, NC*
- TP 343 **Deuterium Labeling in Ubiquitin during Hydrogen/Deuterium Exchange (HDX) and ESI-MS/MS: Scrambled or Sunny-side Up?;** Peter L. Ferguson; Lars Konermann; *University of Western Ontario, London, Canada*
- TP 344 **Controlled Oxidative Chemical Footprinting of Ribonuclease-S-Protein:S-Peptide Complex by Laser Flash Photolysis of Hydrogen Peroxide;** Brian C. Gau; Michael L. Gross; *Washington University, St. Louis, MO*
- TP 345 **Hydrogen-deuterium Exchange Provides Evidence for Presence of Mobile Water Molecules at the MHC-Peptide Binding Interface;** Sachin Patil; Lilly M. Saleena; Hermann von Grafenstein; *University of Toledo, Toledo, OH*
- TP 346 **Testing the Efficiency and Specificity of Pepsins from the Antarctic Fish *Trematopus bernacchii* for HDX-MS Experiments;** Sebastien Brier<sup>1</sup>; Yan Wu<sup>2</sup>; Robert Taylor<sup>2</sup>; Vincenzo Carginale<sup>3</sup>; Antonio Capasso<sup>3</sup>; Clemente Capasso<sup>3</sup>; John R. Engen<sup>1</sup>; <sup>1</sup>*The Barnett Institute, Boston, MA*; <sup>2</sup>*Department of Chemistry, University of New Mexico, Albuquerque, NM*; <sup>3</sup>*CNR Institute of Protein Biochemistry, Naples, Italy*
- TP 347 **Probing Tertiary Structure of Bacterial Collagen Binding Domain (CBD) and Catalytic Domain in a Multi-domain Protein by Limited Proteolysis MALDI-TOF-MS;** Rohana Liyanage<sup>1</sup>; P. S. T. Leena<sup>1</sup>; C. R. Sides<sup>1</sup>; Nagarjuna Devarapalli<sup>1</sup>; Jennifer Gidden<sup>1</sup>; Philominathan O. Matsushita<sup>2</sup>; J. J. Sakon<sup>1</sup>; Jackson O. Lay, Jr<sup>1</sup>; <sup>1</sup>*University of Arkansas, Fayetteville, AR*; <sup>2</sup>*Kagawa Medical University, Miki-cho, Kagawa, Japan*
- TP 348 **Visualizing Actin in the Rigor State of the Acto-Myosin Motor by using Structural Mass Spectrometry;** J.K. Amisha Kamal<sup>1</sup>; Sabrina Benchaar<sup>2</sup>; Emil Reisler<sup>2</sup>; Mark chance<sup>1</sup>; <sup>1</sup>*Case Western Reserve University School of Medicine, Cleveland, OH*; <sup>2</sup>*University of California Los Angeles, Los Angeles, CA*
- TP 349 **MS characterization of Serpin and its Complex Structures;** Xiaojing Zheng; Yuko Tsutsui; Patrick L. Wintrode; Mark R. Chance; *Case Western Reserve University, Cleveland, OH*
- TP 349 **Differentiation of Biological Ion Shapes Employing Nanoelectrospray and Ion Mobility Mass Spectrometry;** Mark Allen<sup>1</sup>; John Shockcor<sup>2</sup>; Rob Plumb<sup>2</sup>; Alan Miller<sup>2</sup>; Chris Hughes<sup>2</sup>; Mark Baumert<sup>1</sup>; Jack Henion<sup>1</sup>; <sup>1</sup>*Advin BioSciences, Ithaca, NY*; <sup>2</sup>*Waters, Milford, MA*

**PROTEINS: GENERAL  
350 - 271**

- TP 350 **Proteomic Analysis of Thiol-Containing Proteins on the Platelet Surface;** Susan T. Weintraub; Xiuhua Sun; Nagaraj Manickam; Christopher A. Carroll; Kevin W. Hakala; David W. Essex; *University of Texas HSC, San Antonio, TX*
- TP 351 **Separation and Partial Characterization of Dipeptidyl Peptidase IV Isoforms by Free Flow Electrophoresis and MALDI-TOF MS;** Patrick O'Mullan; David Craft; Craig Gelfand; *BD Diagnostics, Franklin Lakes, NJ*
- TP 352 **Gluten Determination in Beer using Mass Spectrometric Techniques;** Dorcas Weber; Terry Cyr; Benjamin P.-Y. Lau; Samuel Benrejeb-Godefroy; *Health Canada, Ottawa, Canada*

POSTER SPACE

- TP 353 **An Aptly Positioned Azido Group in a Protein Cross-linker for Facile Mapping of Amino Acids in Close Proximity;** Piotr Kasper; Jaap Willem Back; Maxime Vitale; Alloysius F. Hartog; Winfried Roseboom; Leo J. de Koning; Jan H. van Maarseveen; Anton O. Muijsers; Luitzen de Jong; Chris G. de Koster; *University of Amsterdam, Amsterdam, Netherlands*
- TP 354 **Therapeutic Protein Aggregates: Direct Analysis by Chemical Cross-Linking and High-Mass MALDI Mass Spectrometry;** Alexis Nazabal; Ryan Wenzel; *CovalX AG, Zürich, Switzerland*
- TP 355 **Cross-Linking and UPLC/MS/MS Analysis of the Tif34/Tif35 Protein Complex;** Amadeu H Iglesias; Fabio C Gozzo; *Brazilian Synchrotron Light Source, Campinas, Brazil*
- TP 356 **Copper Binding of the  $\beta$ -2-Microglobulin Oligomers Studied by Metal-Catalyzed Oxidation Reactions and Mass Spectrometry;** Srikanth Rapole; Richard W. Vachet; *University of Massachusetts, Amherst, MA*
- TP 357 **Investigating Domain Swapping in the C-terminal Domain of the HIV-1 Capsid Protein using Chemical Cross-linking and Mass Spectrometry;** Lisa M. Jones; Sebyung Kang; Matthew B. Renfrow; Peter E. Prevelige, Jr; *University of Alabama at Birmingham, Birmingham, AL*
- TP 358 **Structural Studies of Antigens Associated with the Autoimmune Disease, Sjogren's Syndrome;** Leesa J Deterding; Rachelle Bienstock; Kenneth B Tomer; *NIEHS/NIH/DHHS, RTP, NC*
- TP 359 **ABRF-PRG2007: Advanced Quantitative Proteomics Study;** A. M. Falick<sup>1</sup>; M. J. MacCoss<sup>2</sup>; W. S. Lane<sup>3</sup>; K. S. Lilley<sup>4</sup>; B. S. Phinney<sup>5</sup>; N. E. Sherman<sup>6</sup>; S. T. Weintraub<sup>7</sup>; H. E. Witkowska<sup>8</sup>; N. A. Yates<sup>9</sup>; <sup>1</sup>*University of California, HHMI MS Lab, Berkeley, CA*; <sup>2</sup>*University of Washington, Dept. of Genome Science, Seattle, WA*; <sup>3</sup>*Harvard University, Cambridge, MA*; <sup>4</sup>*University of Cambridge, Cambridge, United Kingdom*; <sup>5</sup>*University of California, Davis, CA*; <sup>6</sup>*University of Virginia, Charlottesville, VA*; <sup>7</sup>*University of Texas Health Sciences Center, San Antonio, TX*; <sup>8</sup>*University of California BRC MS Facility, San Francisco, CA*; <sup>9</sup>*Merck Research Laboratories, Rahway, NJ*
- TP 360 **Analysis of the Arp2/3 Protein Complex using Electron Transfer Dissociation;** Kristie M. Lindsey Rose; Namrata D. Udeshi; Tatyana I. Kotova; Jeffrey Shabanowitz; Dorothy A. Schafer; Donald F. Hunt; *University of Virginia, Charlottesville, VA*
- TP 361 **Immunoaffinity-HPLC/MS Analysis of Food Allergens;** Kevin J. Shefcheck; Carmen Westphal; Fenhong Song; John H. Callahan; *USFDA, College Park, MD*
- TP 362 **MS2DB: Mining and Identification of Disulfide Bonds in Proteins Utilizing Mass Spectrometric Data;** Ten-yang Yen; Timothy Lee; Rahul Singh; Alexander Chavez; Bruce Macher; *San Francisco State University, San Francisco, CA*
- TP 363 **Identification of Disulfide Bridges in *C. Botulinum Neurotoxin* by Mass Spectrometry;** Nemone Muster; Hua Huang; Tai Huynh; Elizabeth Gielow; Curtis Monnig; Marc Verhagen; *Allergan Inc., Irvine, CA*
- TP 364 **Deuterium Exchange Mass Spectrometry Studies of Group IA PLA2 utilizing Novel Methods for Lipid Protein Interactions and Highly Disulfide Bound Proteins;** John Burke<sup>1</sup>; <sup>1</sup>*UCSD, La Jolla, CA*; <sup>2</sup>*University of California San Diego, La Jolla, CA*

TUESDAY POSTERS

POSTER SPACE

- TP 365 **Glutathione S-Transferase Dynamics by H/D Exchange Mass Spectrometry**; Liming Hou; *University of Washington, Seattle, WA*
- TP 366 **Application of I-DIRT Technology for Protein Interaction Studies in *D. melanogaster* Embryos**; Angeline Gradolatto<sup>1</sup>; Yanling Liu<sup>2</sup>; Michael Lehmann<sup>2</sup>; Alan J. Tackett<sup>1</sup>; <sup>1</sup>*University of Arkansas for Medical Sciences, Little Rock, AR*; <sup>2</sup>*University of Arkansas, Fayetteville, AR*
- TP 367 **Biochemical and Mass Spectrometric Analysis of Disulfide Regulation in Redox-active Glutamate Cysteine Ligase (GCL) from *Arabidopsis thaliana***; Leslie M. Hicks; Eric R. Bonner; Rebecca E. Cahoon; Rebecca S. Rivard; Jeanne Sheffield; Joseph M. Jez; *Donald Danforth Plant Science Center, St. Louis, MO*
- TP 368 **Identification of PRSS11 Candidate Substrates through Proteomic Analysis**; Lin Liu; Ying Huang; Zhiyong Yang; Wei Liu; Eunice Wang; Carl Flannery; Margot O'Toole; Yongchang Qiu; *Wyeth, Cambridge, MA*
- TP 369 **Top Down Protein Sequencing using an Electrospray Chip Coupled to an Ion Mobility / Time-of-Flight Mass Spectrometer**; Therese McKenna<sup>1</sup>; Christopher Hughes<sup>1</sup>; Mark Baumert<sup>2</sup>; Mark Allen<sup>2</sup>; James Langridge<sup>1</sup>; <sup>1</sup>*Waters Corporation, Manchester, United Kingdom*; <sup>2</sup>*Advion BioSciences, Norwich, United Kingdom*
- TP 370 **Bath Gas Pressure Effects on the Charge State Distribution of Disulfide Reduced Proteins**; Brittany Butler; Gary L. Glish; *The University of North Carolina at Chapel Hill, Chapel Hill, NC*
- TP 371 **A Novel Mass Defect Labeled Mass-Spectrometry Identifiable Cross-linker**; Lisabeth L. Hoffman; Ryan M. Phillips; George F. Majetich; I. Jonathan Amster; *University of Georgia, Athens, GA*

**PROTEINS: GLYCOPROTEINS I  
372 - 396**

- TP 372 **Different Proteomic Approaches to Analysis of *Francisella tularensis* Bacterial Glycoproteins**; Lenka Hernychova<sup>1</sup>; Lucie Balonova<sup>2</sup>; Zuzana Bilkova<sup>2</sup>; Iveta Klouckova<sup>3</sup>; Lucie Markova<sup>1</sup>; Ivona Pavkova<sup>1</sup>; Yehia Mechref<sup>4</sup>; Milos V. Novotny<sup>4</sup>; Jiri Stulik<sup>1</sup>; <sup>1</sup>*University of Defence, Hradec Kralove, Czech Republic*; <sup>2</sup>*University of Pardubice, Pardubice, Czech Republic*; <sup>3</sup>*Indiana University, Bloomington, IN*; <sup>4</sup>*National Center of Glycomics and Glycoproteomics, Bloomington, IN*
- TP 373 **O-Linked Protein Glycosylations in Plasma as Biomarkers for Epithelial Ovarian Cancer**; Taufika Islam Williams<sup>1</sup>; Jason S. Sampson<sup>1</sup>; Adam M. Hawkrige<sup>1</sup>; William A. Cliby<sup>2</sup>; David C. Muddiman<sup>1</sup>; <sup>1</sup>*North Carolina State University, Raleigh, NC*; <sup>2</sup>*Mayo Clinic, Rochester, MN*
- TP 374 **In vivo Metabolic Labeling and Detection of Specific Glycoprotein Subclasses in Her2/neu Mouse Mammary Tumors**; Brian Agnew<sup>1</sup>; Tamara Nyberg<sup>1</sup>; Courtenay Hart<sup>1</sup>; Rajkumar Lakshmanaswamy<sup>2</sup>; <sup>1</sup>*Molecular Probes / Invitrogen, Eugene, OR*; <sup>2</sup>*Texas University Health Sciences Center, El Paso, TX*
- TP 375 **Determination of Glycosylation Profiles of Major Secreted Proteins of Cancer Cell Lines**; Mathur Rajesh; Lalita A. Shevde; Rajeev S. Samant; Lewis K. Pannell; *Mitchell Cancer Institute, Univ. of South Alabama, Mobile, AL*
- TP 376 **Glycan Analysis of Human Podoplanin Using MALDI TOF and MALDI QIT-TOF Mass**

POSTER SPACE

- Spectrometers**; Akihiko Kameyama; Mika Kato Kaneko; Yukinari Kato; Kahori Tachibana; Hiromi Ito; Hisashi Narimatsu; *National Institute of Advanced Industrial Science, Tsukuba, Japan*
- TP 377 **Characterization of the FcγRIIIa Carbohydrate Structure using LC-nanoESI-MS/MS with Parallel MS Triggered Fraction Collection and Subsequent Analysis of Glycopeptide Fractions**; Anne Zeck<sup>1</sup>; Gottfried Pohlentz<sup>2</sup>; Tilman Schlothauer<sup>1</sup>; Stefan Seeber<sup>1</sup>; Jasna Peter-Katalinic<sup>2</sup>; Jörg Thomas Regula<sup>1</sup>; <sup>1</sup>*Roche Diagnostics GmbH, Penzberg, Germany*; <sup>2</sup>*Westfälische-Wilhelms Universität Münster, Münster, Germany*
- TP 378 **Discovery of Disease Marker by Direct LC-MS/MS Peptide Analysis to Profile Serum N-Glycoproteomes of Patients and Normal Controls**; Shwu-Bin Lin; Wei-Chien Tang; Tin-Yu Lin; Ming-Yang Lai; Ding-Shinn Chen; *National Taiwan University, Taipei, Taiwan, R.O.C.*
- TP 379 **Quantitative Analysis of Tumor Proteins in Plasma**; Yuan Tian; Hui Zhang; *Johns Hopkins School of Medicine, Baltimore, MD*
- TP 380 **Identification of Cell Surface Markers to Differentiate Endothelial and Fibroblast Cells using Lectin Arrays and LC/ESI/MS-MS**; Jieun Lee<sup>1</sup>; Shama P. Mirza<sup>2</sup>; Daniela N. Didier<sup>2</sup>; Mark Scalf<sup>1</sup>; Andrew S. Greene<sup>2</sup>; Michael Olivier<sup>2</sup>; Lloyd M. Smith<sup>1</sup>; <sup>1</sup>*University of Wisconsin-Madison, Madison, WI*; <sup>2</sup>*Medical College of Wisconsin, Milwaukee, WI*
- TP 381 **The O-GlcNAc Proteome of Human Erythrocyte**; Zihao Wang; Kyoungsook Park; Greald W. Hart; *Johns Hopkins University School of Medicine, Baltimore, MD*
- TP 382 **Comprehensive Analysis of Platelet Proteins Focusing on Membrane Glycoproteins and Glycosylation Site Analysis**; Urs Lewandrowski<sup>1</sup>; René Peiman Zahedi<sup>1</sup>; Jan Moebius<sup>1</sup>; Ulrich Walter<sup>2</sup>; Albert Sickmann<sup>1</sup>; <sup>1</sup>*Rudolf-Virchow-Center, University Würzburg, Würzburg, Germany*; <sup>2</sup>*IZKF, University Würzburg, Würzburg, Germany*
- TP 383 **Temporal Variations in the Human Milk Glycoproteome**; John Froehlich; Eric Dodds; Erica McJimpsey; Richard Seipert; Hyun Joo An; Carlito Lebrilla; *UC Davis, Davis, CA*
- TP 384 **Glycosylation Site-specific Characterization of a HIV Vaccine Candidate, CON-S gp140&Delta;CFI, a Glycoprotein with 31 Potential Glycosylation Sites**; Janet Irungu<sup>1</sup>; Eden P. Go<sup>1</sup>; Ying Zhang<sup>1</sup>; Dilusha S. Dalpathado<sup>1</sup>; Hua-Xin Liao<sup>2</sup>; Barton F. Haynes<sup>2</sup>; Heather Desaire<sup>1</sup>; <sup>1</sup>*University of Kansas, Lawrence, KS*; <sup>2</sup>*Duke University medical center, Durham, NC*
- TP 385 **Characterizing the Flagellin Glycoprotein from *Clostridium botulinum*: Identifying the Sites of Glycosylation using Electron Transfer Dissociation**; John F. Kelly<sup>1</sup>; Susan Twine<sup>1</sup>; Susan Logan<sup>1</sup>; James Mullen<sup>1</sup>; Catherine Paul<sup>2</sup>; John Austin<sup>2</sup>; Yingying Huang<sup>3</sup>; <sup>1</sup>*NRC Institute for Biological Sciences, Ottawa, Canada*; <sup>2</sup>*Bureau of Microbial Hazards, Health Canada, Ottawa, Canada*; <sup>3</sup>*Thermo Fischer Scientific, San Jose, CA*
- TP 386 **Mass Spectrometric Elucidation of N-Glycosylation to the Light Chain of a Crystallizing Cryoglobulin**; Masaki Yamada<sup>1</sup>; Megumi Nakamura<sup>2</sup>; Ryo Hashimoto<sup>3</sup>; Mayumi Mori<sup>3</sup>; Tomohiro Torii<sup>4</sup>; Kazuhiro Ikenaka<sup>4</sup>; Tosifusa Toda<sup>2</sup>; <sup>1</sup>*Life Science Laboratory, Shimadzu Corporation, Kyoto, Japan*; <sup>2</sup>*Tokyo*

TUESDAY POSTERS

POSTER SPACE

- Metropolitan Institute of Gerontology, Tokyo, Japan;  
<sup>3</sup>Tokyo Metropolitan Geriatric Hospital, Tokyo, Japan;  
<sup>4</sup>National Institute for Physiological Sciences, Okazaki, Japan
- TP 387 **A Structural and Functional Analysis of Glycoproteins with Modified Glycosylation;** Melinda L. Toumi; Eden P. Go; Heather Desaire; *University of Kansas, Lawrence, KS*
- TP 388 **Relative Quantitation of Glycopeptides Secreted by a Glioblastoma Cell Line in Response to cAMP;** Jennifer J. Hill; Jean C.Y. Lam; Maria J. Moreno; John F. Kelly; *National Research Council Canada, Ottawa, ON, Canada*
- TP 389 **FT-ICR MS Accurate Mass Profiles of IgA1 Hinge Region O-Glycosylation Isoforms;** Stephanie B. Wall; Stacy Hall; Bruce A. Julian; Jiri Mestecky; Jan Novak; Matthew B. Renfrow; *University of Alabama at Birmingham, Birmingham, AL*
- TP 390 **Glycosylation Profiling of IL-23: Determination of N-Glycosylation Sites and Structure Characterization of the Oligosaccharides by Mass Spectrometry;** Yan-Hui Liu; Brian Beyer; Peter Orth; Richard Ingram; Birendra N. Pramanik; *Schering Plough Research Institute, Kenilworth, NJ*
- TP 391 **Dissociation of Core  $\alpha$ 1,6- and Antenna  $\alpha$ 1,3-fucosylated Isomers in the MS of Glycopeptides;** Michiko Tajiri<sup>1</sup>; Yoshinao Wada<sup>2</sup>; <sup>1</sup>CREST, JST, Kawaguchi, Saitama, Japan; <sup>2</sup>Osaka MCHRI, Izumi, Osaka, Japan
- TP 392 **Glycomic Profiling of the NCI-60 Cancer Cell Panel;** John A. Goetz<sup>1</sup>; Yehia Mechref<sup>1</sup>; Milos V. Novotny<sup>1</sup>; <sup>1</sup>Indiana University Dept. of Chemistry, Bloomington, IN; <sup>2</sup>National Center of Glycomics and Glycoproteomics, Bloomington, IN
- TP 393 **Profiling of Lectin-Enriched Glycoproteins from Healthy Individuals and Stage III Breast Cancer Patients;** Iveta Klouckova<sup>1</sup>; Milan Madera<sup>2</sup>; Benjamin Mann<sup>1</sup>; Yehia Mechref<sup>3</sup>; Milos Novotny<sup>2</sup>; <sup>1</sup>Indiana University, Bloomington, IN; <sup>2</sup>National Center of Glycomics and Glycoproteomic, Bloomington, Indiana; <sup>3</sup>METACyt Biochemical Analysis Center, Bloomington, IN
- TP 394 **Automated LC-MALDI Analysis of Glycopeptides from Recombinant Human Integrin;** Anja Resemann<sup>1</sup>; Arndt Asperger<sup>1</sup>; Kerstin Seemann<sup>2</sup>; Thomas Eichhorn<sup>3</sup>; Christian Hunzinger<sup>2</sup>; Katrin Sparbier<sup>1</sup>; Lars Vorwerg<sup>1</sup>; Günter Stein<sup>1</sup>; Detlev Suckau<sup>1</sup>; <sup>1</sup>Bruker Daltonics, Bremen, Germany; <sup>2</sup>Merck KGaA, Darmstadt, Germany
- TP 395 **Identification and Analysis of S-Layer Proteins from Methanosarcina Acetivorans and Methanosarcina mazei;** Deborah Leon-Rossell; Kim Unmi; Yanan Yang; Joseph A. Loo; Robert P. Gunsalus; Rachel Ogorzalek Loo; *UCLA, Los Angeles, CA*
- TP 396 **Further LC-MS/MS Characterization of Sites of O-GlcNAc Modification within the C-Terminus of Insulin Receptor Substrate-1 (IRS-1) and Their Biological Relevance;** Lauren E. Ball; Mary N. Berkaw; Katherine A. Robinson; Maria G. Buse; *Medical University of South Carolina, Charleston, SC*

**PROTEINS: MODIFIED II**  
**397 - 415**

- TP 397 **Studies of Modifications of Cysteine 34 on Human Serum Albumin;** Jianzhong Chen<sup>1</sup>; Xiaoting Tang<sup>1</sup>; Yvonne Carella<sup>2</sup>; Hollie Huff<sup>2</sup>; James E. Bruce<sup>1</sup>;

POSTER SPACE

- <sup>1</sup>Washington State University, Pullman, WA; <sup>2</sup>Inverness Medical Innovations, Inc., Louisville, CO
- TP 398 **Investigation of Protein Sequence Variants in a Natural Microbial Community by Top-Down Proteomics;** Brian Erickson<sup>1</sup>; Mark Lefsrud<sup>1</sup>; Nathan VerBerkmoes<sup>1</sup>; Steven Singer<sup>2</sup>; Michael Thelen<sup>2</sup>; Jillian Banfield<sup>3</sup>; Robert Hettich<sup>1</sup>; <sup>1</sup>Oak Ridge National Laboratory, Oak Ridge, TN; <sup>2</sup>Lawrence Livermore Natl. Lab, Livermore, CA; <sup>3</sup>University of California, Berkeley, CA
- TP 399 **Characterization of the Extracellular Domain of Recombinant Human EMMPRIN;** Eric Beil; Yi Tang; Sheng-Jiun Sam Wu; Mark Cunningham; Juliane Mills; Bethany Swencki-Underwood; Alison Rogers; Jennifer F. Nemeth; *Centocor, Inc. a Johnson and Johnson Subsidiary, Radnor, PA*
- TP 400 **Oxidation of DNA-Binding Proteins: from Damage to Loss of Function;** Corinne Buré<sup>1</sup>; Nathalie Gillard<sup>1</sup>; Stephane Goffinot<sup>1</sup>; Marie Davidkova<sup>2</sup>; Françoise Culard<sup>1</sup>; Melanie Spothem-Maurizot<sup>1</sup>; Martine Cadene<sup>1</sup>; <sup>1</sup>Centre de Biophysique Moléculaire CNRS UPR4301, Orleans, France; <sup>2</sup>Nuclear Physics Institute, Prague, Czech Republic
- TP 401 **Automated Precursor Ion Scan Identification of Protein Carbonylation Sites on a Hybrid Triple Quadrupole Linear Ion Trap Mass Spectrometer;** Shannon M Eliuk; Matthew B Renfrow; Ray Moore; Stephen Barnes; Helen Kim; *University of Alabama at Birmingham, Birmingham, AL*
- TP 402 **Identification of 2-Amino Adipic Acid as an Oxidation Product of Lysine by Leukocyte Heme-Peroxidases *in vivo* via LC MS/MS Analysis;** Zhiping Wu; Zeneng Wang; Stanley L. Hazen; *Cleveland Clinic Foundation, Cleveland, OH*
- TP 403 **Evaluation of the Effect of Sample Composition and Sample Load on the Mass Spectrometric Analysis of Immunoconjugates;** Alex Lazar; Rajesh Krishnamurthy; *Immunogen, Cambridge, MA*
- TP 404 **LC-MS/MS Identification of Redox-dependent Formation of Disulfide Bonds in Recombinant Replication Protein A *in vitro*;** Lijie Men; Yinsheng Wang; *University of California, Riverside, Riverside, CA*
- TP 405 **Using MALDI-MS to Identify Novel Chromosomal-binding sites for a Chromatin-Organizing Protein;** Heather Lavender; Alan J. Tackett; *University of Arkansas for Medical Sciences, Little Rock, AR*
- TP 406 **Identification of Oxidant-Induced Post-translational Modifications of GAPDH in Endothelial Cells using 2D-PAGE and Mass Spectrometry;** Mahadevan Sethuraman; David H. Perlman; Chaomei Shi; Mark E. McComb; Catherine E. Costello; Richard A. Cohen; *Boston University Sch of Medicine, Boston, MA*
- TP 407 **Detection and Characterization of Immunoglobulin Light Chain Posttranslational Modifications using LCMS/MS-MS;** Roger Theberge<sup>1</sup>; Yan Jiang<sup>1</sup>; Mark E McComb<sup>1</sup>; Tatiana Prokaeva<sup>2</sup>; Lawreen H Connors<sup>2</sup>; Martha Skinner<sup>2</sup>; David C Seldin<sup>2</sup>; Catherine E Costello<sup>1</sup>; <sup>1</sup>Boston University School of Medicine, Mass Spectro, Boston, MA; <sup>2</sup>Boston University School of Medicine, Boston, MA
- TP 408 **LC/MS Characterization of Common Chemical Degradation Products of *E. coli* Expressed Human IgG1 Fc;** Da Ren; Jane Dankberg; Yan Zhou; Robert Rosenfeld; Luke Li; Liang-Yu Shih; Pavel V.

TUESDAY POSTERS

POSTER SPACE

- Bondarenko; Richard L. Remmele, Jr; Dingjiang Liu; *Amgen Inc, thousand oaks, CA*
- TP 409 **AP180 is Multiply Phosphorylated and Has a Novel Post-Translational Modification: N-Acetylglucosamine Phosphorylation**; Mark E. Graham<sup>1</sup>; George E. Craft<sup>1</sup>; Nicolai Bache<sup>2</sup>; Martin R. Larsen<sup>2</sup>; Phillip J. Robinson<sup>1</sup>; <sup>1</sup>*Children's Medical Research Institute, Westmead, Australia*; <sup>2</sup>*University of Southern Denmark, Odense, Denmark*
- TP 410 **Comprehensive Profiling of Unnatural Amino Acid Containing Protein Mutants**; Ansgar Brock<sup>1</sup>; Shawn Cheng<sup>2</sup>; Peter G. Schultz<sup>2</sup>; <sup>1</sup>*Genomics Institute of Novartis, San Diego, CA*; <sup>2</sup>*The Scripps Research Institute, San Diego, CA*
- TP 411 **Characterizing the  $\alpha,\beta$ -Unsaturated Aldehyde Acrolein's Role in the Covalent Cross-Linking of Proteins and Peptides Using Proteomics**; Lewis C Jackson; Bert C Lynn; *University of Kentucky, Lexington, KY*
- TP 412 **LC-FT-MS Determination of Deamidation**; Carol E. Parker<sup>1</sup>; Ryan Danelle<sup>2</sup>; Linhong Jing<sup>1</sup>; Maria E. Warren<sup>1</sup>; Cameron O. Scarlett<sup>1</sup>; Li Zhou<sup>1</sup>; Xian Chen<sup>1</sup>; <sup>1</sup>*University of North Carolina, Chapel Hill, NC*; <sup>2</sup>*Danell Consulting, Greenville, NC*
- TP 413 **Characterization of Immunoconjugates of a Novel Antineoplastic Drug with Herceptin using Nanospray Mass Spectrometry**; John Roboz<sup>1</sup>; Sool Yeon Cho<sup>1</sup>; Stanley C. Bell<sup>2</sup>; Glenn J. Fegley<sup>2</sup>; Jodie L. Duke<sup>2</sup>; Stephen Cosenza<sup>3</sup>; James F. Holland<sup>1</sup>; <sup>1</sup>*Mount Sinai School of Medicine, New York, NY*; <sup>2</sup>*Onconova Therapeutics Inc., Lawrenceville, NJ*; <sup>3</sup>*Temple University School of Medicine, Philadelphia, PA*
- TP 414 **Characterization of Xenobiotic Modification Products of Haemoglobin by Nano-electrospray Tandem Mass Spectrometry**; Antti Hesso<sup>1</sup>; Jarkko Tornaues<sup>1</sup>; Vladimir Havlicek<sup>2</sup>; <sup>1</sup>*Finnish Institute of Occupational Health, Helsinki, Finland*; <sup>2</sup>*Institute of Microbiology, Prague, Czech Republic*
- TP 415 **Probing the Conformation and Activity of Trypsin by Amidination Labeling**; Xiaohui Liu; William C. Broshears; James P. Reilly; *Indiana University, Bloomington, IN*

**PROTEINS: RECOMBINANT  
416 - 433**

- TP 416 **Rapid Characterization of Variable Regions of Monoclonal Antibodies by Top-Down Mass Spectrometry**; Zhongqi Zhang; Bhavana Shah; *Amgen, Inc., Thousand Oaks, CA*
- TP 417 **The Comparison of Biopharmaceutical and Follow-on Protein Drugs Using Extended Range Proteomic Analysis**; Xiaoyang Zheng; Shiaw-lin Wu; Haitao Jiang; Barry L. Karger; William S. Hancock; *Northeastern University, Boston, MA*
- TP 418 **Top-down Characterization of Therapeutic Antibody by High Resolution LTQ Orbitrap Mass Spectrometry**; Jennifer Zhang; Viswanatham Katta; *Genentech Inc., South San Francisco, CA*
- TP 419 **Structural Characterization of the Extracellular Domain of a Recombinant Human Toll-Like Receptor 3 (TLR3) Protein**; Steven C Pomerantz; Ken Dixon; Juliane Mills; Joe Vennarini; Mark Cunningham; Jennifer F. Nemeth; *Centocor Research and Development, Radnor, PA*
- TP 420 **Characterization of Recombinant Proteins by Offgel Electrophoresis Fractionation and LC/MS/MS**

POSTER SPACE

- Techniques**; Patrick D. Perkins; Ning Tang; Christine A. Miller; David M. Horn; Xiang-Dong Li; *Agilent Technologies, Santa Clara, CA*
- TP 421 **Identification of Novoseven from Rat Liver Hepatocytes**; Thomas N. Krogh<sup>1</sup>; Torben Seested Johansen<sup>2</sup>; <sup>1</sup>*Protein Science, Novo Nordisk A/S, DK-2760 Måløv, Denmark*; <sup>2</sup>*Exploratory ADME, Novo Nordisk A/S, DK-2760 Måløv, Denmark*
- TP 422 **Microwave-Assisted Enzymatic Digestion for Rapid Identification of Therapeutic Proteins by Peptide Mass Fingerprinting**; Mary Zhu; Viswanatham Katta; *Genentech, Inc., South San Francisco, CA*
- TP 423 **"High-Throughput" Antibody Primary Sequence Confirmation via Nano-LC/MS/MS and Various Protein Identification Algorithms**; Peng Pan; Michelle Busch; Xiaoying Jin; Kate Zhang; *Genzyme Corporation, Framingham, MA*
- TP 424 **Cysteine Connectivity in IgG2 Subclass Complete Determination of the Disulfide Structures of ABX-EGF**; Theresa Martinez<sup>1</sup>; Amy Guo<sup>1</sup>; Mei Han<sup>1</sup>; Jay Jones<sup>2</sup>; Ron Gillespie<sup>1</sup>; Martin Allen<sup>1</sup>; Yuling Zhang<sup>1</sup>; Alain Balland<sup>1</sup>; <sup>1</sup>*Amgen, Seattle, WA*; <sup>2</sup>*Seattle Genetics, Seattle, WA*
- TP 425 **Impurity Characterization in Recombinant Anthrax Protective Antigen In-Process Pools by LC/MS/MS**; Geoffrey K Yeh; *Vaxgen, South San Francisco, CA*
- TP 426 **Long term Stability of Erbitux<sup>®</sup> #174; Methionine Oxidation in Stressed and Unstressed Samples**; Jay Charlebois; Tun Liu; Ann Daus; Qinwei Zhou; *ImClone Systems Incorporated, Branchburg, NJ*
- TP 427 **Monitoring Modifications to Monoclonal Antibodies in Serum using a Novel Immunoprecipitation Method**; Katherine Lancaster; Viswanatham Katta; *Genentech, South San Francisco, CA*
- TP 428 **Antigen Characterization using Mass Spectrometry: A Path to Developing a Better Antibody in the Biopharmaceutical Industry Setting**; Jennifer F. Nemeth; Eric J. Beil; Steven C Pomerantz; *Centocor R&D, Radnor, PA*
- TP 429
- TP 430 **Automated Top-Down and Bottom-Up Sequencing of Monoclonal Antibodies**; Gary A. Schultz<sup>1</sup>; Jason C. Rouse<sup>2</sup>; Joseph E. McClellan<sup>2</sup>; <sup>1</sup>*Advion BioSystems, Ithaca, NY*; <sup>2</sup>*Wyeth BioPharma, Andover, MA*
- TP 431 **Identification and Quantitation of Isomerization and Cleavage in the Aspartate-Aspartate Motif in a Monoclonal Antibody by LC/MS and MALDI-TOF Analysis**; Gang Xiao; Pavel Bondarenko; *Amgen, Thousand Oaks, CA*
- TP 432 **Direct Liquid Chromatography-Mass Spectrometry Quantitation of Proteins Expressed using Pooled ORF Expression Technology (POET)**; William K. Gillette; Dominic Esposito; Timothy D. Veenstra; James L. Hartley; *SAIC-Frederick, Frederick, MD*
- TP 433 **Identification of Hinge Region Fragmentation in HIC and SEC Column Fractions of an IgG4 Antibody**; Vida Pezeshk; Zhirui Lian; *Eli Lilly, Indianapolis, IN*

**PROTEOMICS: BIOMARKERS II  
434 - 463**

- TP 434 **Quantitative Proteome Analysis of an A53T  $\alpha$ -Synuclein Drosophila Model of Parkinson's Disease**; Zhiyin Xun; Renā A. Sowell; Thomas C. Kaufman; David E. Clemmer; *Indiana University Bloomington, Bloomington, IN*



TUESDAY POSTERS

POSTER SPACE

- TP 435 **The Mass Spectrometric Detection of Schistosomiasis Infections from an Endemic Region;** Adam Rainczuk<sup>1</sup>; A Thiam<sup>1</sup>; Brian J Ward<sup>1</sup>; Momar Ndao<sup>1</sup>; David Blank<sup>2</sup>; Hugh PJ Bennett<sup>3</sup>; Bernard F Gibbs<sup>3</sup>; <sup>1</sup>Centre for Parasitology McGill U, Montreal, Canada; <sup>2</sup>Royal Victoria Hospital, MUHC, Montreal, Canada; <sup>3</sup>Sheldon Biotechnology Center, McGill University, Montreal, Canada
- TP 436 **Detection of Differentially Expressed Proteins in Mouse Embryonic Stem Cells (mESCs) using a Micro Liquid Proteomics Approach;** Katherine E. Hersberger; Dang Vu-Phan; Maria Morell; Robert Hinderer; David E. Misek; K. Sue O'Shea; David M. Lubman; *University of Michigan, Ann Arbor, MI*
- TP 437 **A New Method for Generating Quantitative and Reproducible Assay Data using Laser Desorption/Ionization Mass Spectrometry;** Fiona Plows<sup>1</sup>; Lee O Lomas<sup>2</sup>; Vanitha Thulasiraman<sup>1</sup>; Egisto Boschetti<sup>1</sup>; <sup>1</sup>Bio-Rad, Fremont, CA; <sup>2</sup>Ciphergen Biosystems, Fremont, CA
- TP 438 **Simultaneous Quantitation of Four Amyloid  $\beta$  Peptides in Human CSF;** Eddie Takahashi; Anita Howe; Ole Vesterqvist; Zhaosheng Lin; *Wyeth Research, Collegeville, PA*
- TP 439 **Standardization of MALDI-TOF Mass Spectrometry Based Proteomic Profiling;** Thomas Ellsner<sup>1</sup>; Sven Baumann<sup>2</sup>; Dagmar Niemeyer<sup>3</sup>; Martin Fiedler<sup>2</sup>; Uta Ceglarek<sup>2</sup>; Joachim Thierry<sup>2</sup>; Markus Kostrzewa<sup>1</sup>; <sup>1</sup>Bruker Daltonik GmbH, L, Leipzig, Germany; <sup>2</sup>Institute of Laboratory Medicine, Leipzig, Germany; <sup>3</sup>Bruker Daltonik GmbH, HB, Bremen, Germany
- TP 440 **SAMDI-TOF Mass Spectrometry for Clinical Diagnostics;** Steven M. Patrie; Milan Mrksich; *University of Chicago, Chicago, IL*
- TP 441 **Verification of Potential Protein Biomarkers Identified from Conditioned Media in Lung Cancer Sera with an Antibody-based MRM Approach;** Mark Han; Gordon Nicol; Aiqun Li; Charles Birse; Anh Nguyen; Mehdi Mesri; James Duff; David Parmalee; Erin Brand; William Fitzhugh; Jun Kim; Patrick Kaminker; Paul Moore; Steven M. Ruben; Tao He; *Celera, Rockville, MD*
- TP 442 **Enhanced Protein Detection in Metastatic Melanoma Tissue by MALDI MS;** William Hardesty; Mark C. Kelley; Stephen E. Mason; Richard M. Caprioli; *Vanderbilt University, Nashville, TN*
- TP 443 **Brain Injury Biomarker Discovery via a Neuroproteomic Platform;** Andrew K. Ottens<sup>1</sup>; Liliana Bustamante<sup>1</sup>; Erin C. Golden<sup>2</sup>; Firas H. Kobeissy<sup>1</sup>; Ronald L. Hayes<sup>2</sup>; Frank C. Tortella<sup>3</sup>; Kevin K. W. Wang<sup>1</sup>; Jitendra R. Dave<sup>3</sup>; <sup>1</sup>Psychiatry and Neuroscience, University of Florida, Gainesville, FL; <sup>2</sup>Neuroscience Dept., University of Florida, Gainesville, FL; <sup>3</sup>Walter Reed Army Institute of Research, Silver Springs, MD
- TP 444 **Biomarker Discovery in Serum Samples from Babesia-Infected Individuals using 2D-DIGE and MALDI-MS;** Brian Ward<sup>1</sup>; Momar Ndao<sup>1</sup>; Peter J Krause<sup>1</sup>; Michael Edwards<sup>1</sup>; Mark Duncan<sup>1</sup>; Christine Straccini<sup>1</sup>; Terry Spithill<sup>1</sup>; Bernard F Gibbs<sup>2</sup>; <sup>1</sup>Montreal General Hospital, Montreal, Canada; <sup>2</sup>Sheldon Biotechnology Center, McGill University, Montreal, Canada
- TP 445 **Differential Neuroproteomic Analysis of Contusive Spinal Cord Injury in Rats;** Anshu Chen;

POSTER SPACE

- RangaswamyRao Ravikumar; Melanie L. McEwen; Joe E. Springer; *University of Kentucky, Lexington, KY*
- TP 446 **Towards Stable Diagnostic Setups in Clinical Proteomics: Absolute Quantitation of Peptide Biomarkers using MALDI-TOF MS;** Daniel Baechle<sup>1</sup>; Katrin Sparbier<sup>2</sup>; Hassan Dihazi<sup>3</sup>; Sabine Blaschke<sup>3</sup>; Gerhard-Anton Mueller<sup>3</sup>; Thomas Flad<sup>1</sup>; Markus Kostrzewa<sup>2</sup>; <sup>1</sup>Panatecs GmbH, Tuebingen, Germany; <sup>2</sup>Bruker Daltonik GmbH, Leipzig, Germany; <sup>3</sup>University Hospital Goettingen, Goettingen, Germany
- TP 447 **Assessing Proteome Distributions in Renal Tumor Margins by Profiling MS Reveals Aberrant Molecular Characteristics Outside of Histological Tumor Border;** Stacey R. Oppenheimer; Deming Mi; Richard M. Caprioli; *Vanderbilt University, Nashville, TN*
- TP 448 **MALDI-MS Profiling of Embryonic Chick Heart Morphological Markers;** Kevin L. Schey; Susana Comte-Walters; Leticia Reyes; Edward Krug; John Schwacke; *Medical Univ of South Carolina, Charleston, SC*
- TP 449 **LC-MALDI Top-Down Profiling for Biomarker Detection and Identification;** Sven Brand<sup>1</sup>; Victor G. Fursey<sup>2</sup>; Stephanie Hahner<sup>1</sup>; Detlef Suckau<sup>1</sup>; <sup>1</sup>Bruker Daltonik GmbH, Bremen, Germany; <sup>2</sup>Bruker Daltonics Inc., Billerica, MA
- TP 450 **LTQ Orbitrap MS and MS-MS Analysis of "Intact" Small Acid Soluble proteins of *Bacillus anthracis* and *Bacillus cereus*;** Elisangela R Castanha<sup>1</sup>; Tonya Pekar<sup>2</sup>; Karen Fox<sup>1</sup>; Alvin Fox<sup>1</sup>; <sup>1</sup>University of South Carolina, Columbia, SC; <sup>2</sup>Thermo Fisher Scientific, San Jose, CA
- TP 451 **Label Free Quantitation of Plasma Proteins by LTQFT;** Kumar Kolli<sup>1</sup>; Richard Katzenhusen<sup>1</sup>; David Kirchner<sup>1</sup>; Heather L Patney<sup>1</sup>; Jamie Weyandt<sup>1</sup>; Amy Burke<sup>1</sup>; Mary J Haberkorn<sup>1</sup>; Richard J Mural<sup>1</sup>; Ellis Gitlin<sup>2</sup>; Darrell Ellsworth<sup>1</sup>; *Windber Research Institute, Windber, PA*; <sup>2</sup>GE Healthcare, Piscataway, NJ
- TP 452 **Diagnosis of Human Babesiosis using SELDI ProteinChip Technology;** Momar Ndao<sup>1</sup>; Peter J Krause<sup>1</sup>; Michael Edwards<sup>1</sup>; Mark Duncan<sup>1</sup>; Christine Straccini<sup>1</sup>; Terry Spithill<sup>1</sup>; Brian Ward<sup>1</sup>; Bernard F Gibbs<sup>2</sup>; <sup>1</sup>Montreal General Hospital, Montreal, Canada; <sup>2</sup>Sheldon Biotechnology Center, McGill University, Montreal, Canada
- TP 453 **MALDI-MS Profiling to Determine Prognostic Indicators of Chemotherapy Response;** Erin H. Seeley; Joshua A. Bauser; Deming Mi; Nara De Matos Grania; Kimberly Johnson; Jennifer A Pietenpol; Richard M. Caprioli; *Vanderbilt University, Nashville, TN*
- TP 454 **Comparative Glycoproteomics for the Discovery of Potential Biomarkers for Prion Disease;** Xin Wei; Joshua Schmidt; Allen Herbst; Judd Aiken; Lingjun Li; *University of Wisconsin-Madison, Madison, WI*
- TP 455 **Comparative Proteomic Analysis of Radiation-induced Protein Changes in Mouse Lung Tissue: Fibrosis Sensitive versus Resistant Strains;** Xiaoping Ao; Mary A Davis; Ming Zhang; Theodore S Lawrence; David M Lubman; *University of Michigan Medical Center, Ann Arbor, MI*
- TP 456 **Identification of DNA Damage Response Biomarkers by Regulated Interaction Domain Affinity Capture (RIDAC);** Jeremy S Myers<sup>1</sup>; Dan C Liebler<sup>2</sup>; <sup>1</sup>Vanderbilt University Medical Center/AstraZeneca,

TUESDAY POSTERS

POSTER SPACE

Nashville, TN; <sup>2</sup>Vanderbilt University Medical Center, Nashville, TN

TP 457 **Correlation of miRNA and SILAC Protein Expression in a Primary Cancer Cell Line;** Lisa Wenrich; Xiquan Liang; Mahbod R. Hajivandi; Brad Love; Christopher Adams; Marshall Pope; *Invitrogen, R & D, Carlsbad, CA*

TP 458 **Proteomic Identification and Quantitative Analysis of Protein Families in Cancer and Control Plasma using an Intact Protein Analysis System;** Sharon J. Pitteri; Vitor Faca; Hong Wang; Qing Zhang; Hiroyuki Katayama; Renee Ireton; Alexei Krasnoselsky; Lisa Newcomb; Kenneth Song; Doug Phanstiel; Veronika Glukhova; Jason Struthers; Matthew Fitzgibbon; Martin McIntosh; Samir Hanash; *Fred Hutchinson Cancer Research Center, Seattle, WA*

TP 459 **High-throughput Biomarker Discovery in Prostate Cancer Using MS-based Quantitative Proteomic Profiling;** Yan Li; Daniel W. Chan; Hui Zhang; *Johns Hopkins University, Baltimore, MD*

TP 460 **Development of a Mass Spectrometry-Based Multiplex Assay for Cardiac Biomarkers;** Eugene Zhen; Michael Berna; Zhaoyan Jin; David Watson; Bradley Ackermann; John Hale; *Eli Lilly & company, Greenfield, IN*

TP 461 **Discovery of Protein Biomarkers of Type-1 Diabetes by LC-MALDI;** Robert Moulder<sup>1</sup>; Waltteri Hosia<sup>1</sup>; Mikko Katajamaa<sup>1</sup>; Arja Reinikainen<sup>1</sup>; Riitta Veijola<sup>2</sup>; Jorma Ilonen<sup>3</sup>; Mikael Knip<sup>4</sup>; Olli Simell<sup>5</sup>; Matej Oresic<sup>6</sup>; Riitta Lahesmaa<sup>1</sup>; <sup>1</sup>*Turku Centre for Biotechnology, Turku, Finland*; <sup>2</sup>*University of Oulu, Oulu, Finland*; <sup>3</sup>*University of Kuopio, Kuopio, Finland*; <sup>4</sup>*University of Helsinki/Tampere University Hospital, Helsinki/Tampere, Finland*; <sup>5</sup>*Turku University Central Hospital, Turku, Finland*; <sup>6</sup>*VTT Technical Research Centre of Finland, Espoo, Finland*

TP 462 **Comparative Proteomics for a Genetically Engineered Mouse Model of Huntington's Disease;** Xiaoyun Liu; Benjamin R. Miller; George V. Rebec; David E. Clemmer; *Indiana Univ., Bloomington, IN*

TP 463 **In vivo Quantitative Interactome Analysis of the Amyloid Precursor Protein by Time-Controlled Transcardiac Perfusion Crosslinking;** Yu Bai; Kelly Markham; Fusheng Chen; Rasanjala Weerasekera; Joel Watts; Patrick Horne; Yosuke Wakutani; Gerold Schmitt-Ulms; *CRND, University of Toronto, Toronto, Canada*

**PROTEOMICS: FUNDAMENTAL STUDIES  
464 - 481**

TP 464 **Global Proteomic Analysis of Zebrafish Plasma;** I. Ramesh Babu<sup>1</sup>; Wolfram Goessling<sup>2</sup>; Leonard I. Zon<sup>2</sup>; John S. Wishnok<sup>1</sup>; Steven R. Tannenbaum<sup>1</sup>; <sup>1</sup>*Massachusetts Institute of Technology, Cambridge, MA*; <sup>2</sup>*Harvard Medical School, Boston, MA*

TP 465 **The Effect of MS/MS Fragment Ion Tolerance on Peptide Identification;** David M. Horn; Christine A. Miller; Bryan D. Miller; *Agilent Technologies, Santa Clara, CA*

TP 466 **Comprehensive Proteome Analysis of Breast Cancer Tissue by LC-ESI MS/MS Combined with Sequential Protein Precipitation and Solubilization Methods;** Yan Gong; Nan Wang; Fang Wu; Liang Li; *Department of Chemistry, Edmonton, Canada*

TP 467 **Proteomic Shift to Arginine Metabolism during Carbon Starvation in *Lactococcus lactis*;** Bart

POSTER SPACE

Weimer<sup>1</sup>; Dong Chen<sup>1</sup>; Lan-Szu Chou<sup>2</sup>; Yi Xie<sup>3</sup>; Bala Ganesan<sup>1</sup>; <sup>1</sup>*Center for Integrated Biosystems, Logan, UT*; <sup>2</sup>*Institute for Clinical and Experimental Pathology, Salt Lake City, Utah*; <sup>3</sup>*Johns Hopkins University, Baltimore, Maryland*

TP 468 **Characterization of Human Liver Peroxisomes by Mass Spectrometry-Based Protein Correlation Profiling;** Sebastian Wiese<sup>1</sup>; Thomas Gronemeyer<sup>1</sup>; Rob Ofman<sup>2</sup>; Martin Eisenacher<sup>1</sup>; Christian Stephan<sup>1</sup>; Heiko Hayen<sup>3</sup>; Juergen Nolte<sup>3</sup>; Ronald Wanders<sup>2</sup>; Helmut E Meyer<sup>1</sup>; Bettina Warscheid<sup>1</sup>; <sup>1</sup>*Medical Proteom-Center, Ruhr-University Bochum, Bochum, Germany*; <sup>2</sup>*University of Amsterdam, Amsterdam, Netherlands*; <sup>3</sup>*Institute for Analytical Sciences, Dortmund, Germany*

TP 469 **In vitro Pharmacoproteomic and Toxicoproteomic Study of a Novel Benzofuran Isolated from *Onobrychis ebenoides* in MCF-7 and DU-145 Cells;** Maria Halabalaki<sup>1</sup>; Theodoros Roumeliotis<sup>2</sup>; Xanthippi Alexi<sup>3</sup>; Panagiotis Zerefos<sup>2</sup>; Aggeliki Papadopoulou<sup>2</sup>; Antonia Vlahou<sup>2</sup>; Sophia Kossida<sup>2</sup>; Michael N. Alexis<sup>3</sup>; Alexios-Leandros Skaltsounis<sup>1</sup>; Spiros D. Garbis<sup>2</sup>; <sup>1</sup>*University of Athens, Pharmacognosy Laboratory, Athens, Greece*; <sup>2</sup>*Academy of Athens - Biomedical Foundation, Athens, Greece*; <sup>3</sup>*National Hellenic Research Foundation, Athens, Greece*

TP 470 **Proteomics Analysis of the Interactome of N-myc Downstream Regulated Gene 1 and its Interactions with the Androgen Response Program;** Lan Chun Tu; Xiaowei Yan; Leroy Hood; Biaoyang Lin; *Inst for Systems Biology, Seattle, WA*

TP 471 **Analysis of Peptides/ Proteins by Pressurized Planar Electrochromatography Coupled with Matrix-Assisted Laser Desorption/ Ionization Time-of-Flight Mass Spectrometry;** Linan Song; Mei Wang; Yang Wang; Bennett Rockney; Wayne F. Patton; *PerkinElmer Life and analytical sciences, Waltham, MA*

TP 472 **Enhancing the Dynamic Range for Proteomics Applications Using Electrochemical/Electrospray Ionization (ECI/ESI) Mass Spectrometry;** Sonja Hess<sup>2</sup>; John Lloyd<sup>1</sup>; <sup>1</sup>*NIH, Bethesda, MD*; <sup>2</sup>*California Institute of Technology/ BI, Pasadena, CA*

TP 473 **Proteomic Analysis of the Striatum in a L-Dopa-Induced Dyskinetic Animal Model of Parkinson's Disease;** Marcus Svensson<sup>1</sup>; Birger Scholz<sup>1</sup>; Karl Sköld<sup>1</sup>; Henrik Alm<sup>1</sup>; Kim Kultima<sup>1</sup>; Maria Fälth<sup>1</sup>; Alan R. Crossman<sup>2</sup>; Erwan Bezdard<sup>3</sup>; Per E. André<sup>1</sup>; <sup>1</sup>*Uppsala University, Uppsala, Sweden*; <sup>2</sup>*University of Manchester, Manchester, United Kingdom*; <sup>3</sup>*University Victor Segalen, Bordeaux, France*

TP 474 **Detecting Self-Assembled Protein Microarrays by MALDI-TOF;** Mike Kimzey; *University of Arizona, Tucson, AZ*

TP 475 **All Proteomic Analyses are Created Equal, and Exhibit an Ion Density that Challenges Conventional Bottom-up LC/MS Analyses;** Scott J. Berger; Craig R. Dorschel; Jeffery C. Silva; Marc V. Gorenstein; Scott J. Geromanos; *Waters Corporation, Milford, MA*

TP 476 **Evidence-Based Protein Identification by LC-MS<sup>3</sup> Linear Ion Trap Mass Spectrometry;** Kiyonaga Fujii<sup>1</sup>; Tomoyo Nakano<sup>2</sup>; Fumihiko Usui<sup>2</sup>; Yasuhiko Bando<sup>3</sup>; Toshihide Nishimura<sup>4</sup>; Fuyuhiko Inagaki<sup>1</sup>; <sup>1</sup>*Hokkaido University, Sapporo, Japan*; <sup>2</sup>*AMR Inc., Tokyo, Japan*; <sup>3</sup>*Biosys Technologies Inc., Tokyo, Japan*; <sup>4</sup>*Tokyo Medical University, Tokyo, Japan*

TUESDAY POSTERS

POSTER SPACE

- TP 477 **An MS-compatible Multicompartmental Electrolyzer for Isoelectric Trapping Separations: the MSWIFT;** Stephanie M. Cologna; Peniel J. Lim; Gyula Vigh; William K. Russell; David H. Russell; *Texas A&M University, College Station, TX*
- TP 478 **Monitoring Proteolytic Digestion using the Fluorophore Epicocconone;** Duncan Veal<sup>1</sup>; H-Yoon Choi<sup>1</sup>; Peter H Karuso<sup>2</sup>; <sup>1</sup>*FLUOROtechnics Pty Limited, Macquarie University, Australia;* <sup>2</sup>*Macquarie University, Sydney, Australia*
- TP 479 **Exploring the Pichia Proteome in Pharmaceutical Product Development;** Charles Mitchell; Ilana S. Aldor; Lihua Huang; *Eli Lilly and Company, Indianapolis, IN*
- TP 480 **New Developments in Proteomic for the Analysis of Art and Archaeological Materials;** Caroline Solazzo<sup>1</sup>; David Erhardt<sup>2</sup>; Elisabeth Martin<sup>3</sup>; Christian Rolando<sup>1</sup>; Caroline Tokarski<sup>1</sup>; <sup>1</sup>*Univ. des Science/Tech de Lille, Villeneuve d'Ascq, France;* <sup>2</sup>*Smithsonian's Museum Conservation Institute (MCI), Washington DC, DC;* <sup>3</sup>*Laboratoire de Recherche des Musées de France, Paris, France*
- TP 481 **The Elucidation of Endoprotease Substrate Specificity by Mass Spectrometry with an On-Bead Peptide Substrate Library;** Nicolas A. Stewart<sup>1</sup>; Ajoy Basak<sup>2</sup>; Timothy D. Veenstra<sup>1</sup>; <sup>1</sup>*SATC-Frederick, Frederick, MD;* <sup>2</sup>*Ottawa Health Research Institute, Ottawa, Canada*

POSTER SPACE

- TP 488 **Determining the Optimal Method of Extracting Proteins from Urine for Proteomic Biomarker Discovery;** Richard S. Lee; Flavio Monigatti; Andrew Briscoe; Bogdan Budnik; Judith A.J. Steen; Michael R. Freeman; Hanno Steen; *Children's Hospital Boston, Harvard Medical School, Boston, MA*
- TP 489 **Comparing Top-down Analysis of Antibody Fc, LC and Fd proteolytic fragments by LTQ-Orbitrap and Q-ToF Premier;** David Hambly; Himanshu S Gadgil; Leo Bonilla; *Amgen Inc., Seattle, WA*
- TP 490 **Peptide Isoelectric Focusing Prefractionation Prior to nanoLC-MS is a Powerful Alternative to GeLC-MS for SILAC-Based Quantitative Proteomics;** Ravi Krovvidi<sup>1</sup>; Kay T Junghanns<sup>2</sup>; Burghardt Scheibe<sup>2</sup>; Gerhard Mittler<sup>1</sup>; <sup>1</sup>*Max Planck Institute of Immunobiology, Freiburg, Germany;* <sup>2</sup>*GE Healthcare Biosciences, Freiburg, Germany*
- TP 491 **Assessment of Multi-dimensional Separation Techniques for High Throughput Shotgun Proteomic Workflows;** Jonathan Brock; Nancy Winters; Sarah Stuart; David Tabb; Daniel Liebler; *Vanderbilt University, Nashville, TN*
- TP 492 **Comparison of Multiple Liquid Partition Chromatography to Fractionate Human Serum for LC-MALDI Mass Spectrometry and LC-ESI Tandem Mass Spectrometry;** Mike Mcdonell<sup>1</sup>; <sup>1</sup>*Bruker Daltonics, Delta, Canada;* <sup>2</sup>*Ryerson University, Toronto, Canada*

**PROTEOMICS: FUNDAMENTAL TECHNIQUE COMPARISON**  
482 - 492

- TP 482 **Increasing the Throughput of Proteomic Analysis: Efficiently Feeding the Mass Spectrometer;** Richard C. Jones; Jason T. Taylor; Ricky D. Edmondson; *NCTR, Jefferson, AR*
- TP 483 **Shotgun Proteomics of *Medicago truncatula* Culture Cells Using Monolithic Capillary LC/MS/MS;** Mohamed Bedair; Zhentian Lei; Bonnie S. Watson; Lloyd W. Sumner; *Samuel Roberts Noble Foundation, Ardmore, OK*
- TP 484 **Improving Protein Coverage in Small Volumes of Cerebrospinal Fluid by Combining Different Types of Mass Spectrometers;** Marcel P Stoop; Peter C Burgers; Lennard J M Dekker; Rogier Q Hintzen; Theo M Luider; *Erasmus University Medical Center, Rotterdam, the Netherlands*
- TP 485 **Methods of Enrichment of LMW Fraction of Human Plasma for MALDI-TOF MS Profiling of Potential Biomarkers of Lung Cancer;** Valeriy E. Shevchenko; Natalia E. Arnotskaya; Oxana P. Trifonova; Valentina A. Yurchenko; David G. Zaridze; *N. N. Blokhin Russian Cancer Research Center, Moscow, Russian Federation*
- TP 486 **Evaluation of Three Methods for Removal of Highly Abundant Human Plasma Proteins;** Hua Lin; Thomas A. Shaler; Jing Wang; Melissa Chen; Erika Price; Jaya Kothule; Sophia Chen; Christopher H Becker; *Biomarker Discovery Sciences, PPD, Inc., Menlo Park, CA*
- TP 487 **sAnalysis of Membrane Proteome of Zebrafish Liver: Comparison of Protein Extraction Methods (SDS vs. ALS) for LC-MS/MS;** Fang Wu; Nan Wang; Yan Gong; Liang Li; *Department of Chemistry, University of Alberta, Edmonton, Canada*

**PROTEOMICS: NEW & IMPROVED METHODS II**  
493 - 514

- TP 493 **A novel Method of Improving Visualisation of Liquid Chromatography-Ion Mobility-Orthogonal Time-of-Flight Mass Spectrometry (LC-IMS-oaTOF-MS) of Complex Mixtures;** Jim Langridge<sup>1</sup>; Ian Ross<sup>1</sup>; Simon Baker<sup>1</sup>; Martin Green<sup>1</sup>; Chris Hughes<sup>1</sup>; Pam Donoghue<sup>2</sup>; Mike Dunn<sup>2</sup>; <sup>1</sup>*Waters Corporation, Manchester, United Kingdom;* <sup>2</sup>*UCD, Conway Institute, Dublin, Ireland*
- TP 494 **N-Terminal Proteomics : A Strategy Based on N-Terminal Protein Derivatization and LC-MS-MS;** Sebastien Gallien<sup>1</sup>; Emmanuel Perrodou<sup>2</sup>; Christine Carapito<sup>1</sup>; Odile Lecompte<sup>2</sup>; Olivier Poch<sup>2</sup>; Christine Schaeffer<sup>1</sup>; Alain Van Dorsselaer<sup>1</sup>; <sup>1</sup>*IPHC-DISA, LSMBO, CNRS-ULP UMR 7178, Strasbourg, France;* <sup>2</sup>*IGBMC CNRS/INSERM/ULP, Illkirch, France*
- TP 495 **Ultra-fast Separations of Peptides and Proteins using Large Pore, Sub-two Micron Columns;** Reno Nguyen; Scott Anderson; Ian Chappell; Wendy Luo; *Grace Davison, Deerfield, IL*
- TP 496 **Anion and Cation Mixed-bed Ion-exchange for Enhanced Multidimensional Separations of Peptides and Phosphopeptides;** Akira Motoyama; Tao Xu; Cristian I. Ruse; James A. Wohlschlegel; John R. Yates, III; *The Scripps Research Institute, La Jolla, CA*
- TP 497 **Development of a Universal Method for Selective Isolation of N-terminal Peptides from Proteins and their de novo Sequencing;** Daisuke Nakayama<sup>1</sup>; Minoru Yamaguchi<sup>1</sup>; Hiroki Kuyama<sup>2</sup>; Eiji Ando<sup>1</sup>; Taka-aki Okamura<sup>3</sup>; Takashi Nakazawa<sup>4</sup>; Osamu Nishimura<sup>2</sup>; Susumu Tsunasawa<sup>1</sup>; <sup>1</sup>*Life Science Laboratory, Shimadzu Corporation, Kyoto, Japan;* <sup>2</sup>*Institute for Protein Research, Osaka University, Suita, Japan;* <sup>3</sup>*Graduate School of Science, Osaka University, Toyonaka, Japan;* <sup>4</sup>*Department of Chemistry, Nara Women's University, Nara, Japan*

TUESDAY POSTERS

POSTER SPACE

- TP 498 **Evaluation of Chip Designs for Titanium Dioxide based Phosphopeptide Enrichment, Separation and Mass Spectrometric Detection;** Shabaz Mohammed<sup>1</sup>; Martijn Pinkse<sup>1</sup>; Joris Benschop<sup>1</sup>; Karsten Kraiczek<sup>2</sup>; Georges Gauthier<sup>2</sup>; Albert Heck<sup>1</sup>; <sup>1</sup>University of Utrecht, utrecht, Netherlands; <sup>2</sup>Agilent Technologies, Waldbronn, Germany
- TP 499 **Scanning a Lower Mass Range to Improve Ion Scores and Sequence Coverage for Protein Identification;** Nedyalka Dicheva; Carol Parker; David Robinette; Mihaela Mocanu; Steven Young; Xian Chen; *UNC-Chapel Hill, Chapel Hill, NC*
- TP 500 **High-Performance Multidimensional Separations for Proteomic Applications;** Brian F. Fuller<sup>1</sup>; Andrew K. Ottens<sup>2</sup>; <sup>1</sup>IDP, University of Florida, Gainesville, FL; <sup>2</sup>Psychiatry and Neuroscience, University of Florida, Gainesville, FL
- TP 501 **Modifications to Botulinum Protease within Neurons;** Jon P. Degnore; Charles B. Shoemaker; Paula Nguyen; Michael Berne; *Tufts University, Boston, MA*
- TP 502 **New Technology in Analyzing Membrane Proteomes: Comprehensive Shotgun Proteomic Analysis of Rat Postsynaptic Density using Chemical Hydrolysis Method;** Taehoon Lee<sup>1</sup>; Joseph Kwon<sup>1</sup>; Younyoung You<sup>1</sup>; Sang Hoon Ha<sup>1</sup>; Martin Blüggel<sup>2</sup>; Gerhard Körting<sup>2</sup>; Herbert Thiele<sup>3</sup>; <sup>1</sup>SIGMOL, Pohang, South Korea; <sup>2</sup>Protagen, Dortmund, Germany; <sup>3</sup>Bruker Daltonik, Bremen, Germany
- TP 503 **Micro-proteome Analysis using Capillary Column in Multi-dimensional Separation;** Hyeveung Kim; Rong Wu; Kathleen R. Cho; David Misek; David M. Lubman; *University of Michigan, Ann Arbor, MI*
- TP 504 **Bioaffinity Microscale Magnetic Reactor for Improved MS Analysis of Entire Protein Complex;** Lucie Korecka<sup>1</sup>; Barbora Jankovicova<sup>1</sup>; Lenka Hernychova<sup>2</sup>; Jana Krenkova<sup>3</sup>; Zuzana Bilkova<sup>1</sup>; <sup>1</sup>University of Pardubice, Pardubice, Czech Republic; <sup>2</sup>Purkyne Military Medical Academy, Hradec Kralove, CZ; <sup>3</sup>Institute of Analytical Chemistry AS CZ, Brno, CZ
- TP 505 **C-Terminal Derivatization of Proteins via Hydrazides for Sequencing with MALDI-MS;** Takashi Nakazawa<sup>1</sup>; Minoru Yamaguchi<sup>2</sup>; Mariko Nakagawa<sup>1</sup>; Mutsumi Oka<sup>1</sup>; Chihiro Nakajima<sup>1</sup>; Hiroki Kuyama<sup>3</sup>; Eiji Ando<sup>2</sup>; Daisuke Nakayama<sup>2</sup>; Taka-aki Okamura<sup>3</sup>; Osamu Nishimura<sup>2</sup>; Susumu Tsunawasa<sup>2</sup>; <sup>1</sup>Nara Women's University, Nara, Japan; <sup>2</sup>Shimadzu Corporation, Kyoto, Japan; <sup>3</sup>Osaka University, Osaka, Japan
- TP 506 **Gas-Phase MudPIT:  $\mu$ LC-FAIMS-MS/MS for Proteomics on an Ion Trap Mass Spectrometer;** Jesse Canterbury; Xianhua Yi; Michael J. MacCoss; *Univ of Washington, Genome Sciences, Seattle, WA*
- TP 507 **Characterization of  $\beta$ -catenin Complexes Associated with Cancer Metastasis by Nanoprobe-assisted Proteomic Approach;** An-kai Su<sup>1</sup>; Po-Chiao Lin<sup>2</sup>; Chun-Cheng Lin<sup>2</sup>; Yu-Ju Chen<sup>1</sup>; <sup>1</sup>Institute of Chemistry, Academia Sinica, Taipei, Taiwan; <sup>2</sup>National Tsing Hua University, Taipei, Taiwan
- TP 508
- TP 509 **A Novel Approach for the Development of a Reference System for Haemoglobin A2 Quantization Based ON Peptide Mapping using LC-MS;** Audrey Bednarczyk<sup>1</sup>; Dominique Roecklin<sup>1</sup>; Christine Schaeffer<sup>1</sup>; Alain Van Dorsselaer<sup>1</sup>; Donatella Caruso<sup>2</sup>; Emmanuelle Bissé<sup>3</sup>; Renata Paleari<sup>2</sup>; Andrea Mosca<sup>2</sup>;

POSTER SPACE

- IFCC .<sup>4</sup>; <sup>1</sup>IPHC-DSA, LSMBO, ULP, CNRS, Strasbourg, France; <sup>2</sup>University of Milano, Milano, Italy; <sup>3</sup>University Hospital, Freiburg, Germany; <sup>4</sup>for IFCC Working Group on Standardization of HbA2
- TP 510 **Microwave-Assisted Acid Hydrolysis Combined with MALDI MS for Studying Prion Structures;** Bela Reiz; Donovan Duggan; Bow Suriyamongkol; David S. Wishart; Liang Li; *University of Alberta, Edmonton, Canada*
- TP 511 **Affinity Technique to Capture and Identify Arsenic Binding Protein;** Huiming Yan; X.Chris Le; *University of Alberta, Edmonton, Alberta, Canada*
- TP 512 **Multidimensional Liquid Chromatography of Proteins Using Monolithic IEX and RP Columns;** Evert-Jan Sneekes; Robert van Ling; Bas Dolman; Remco Swart; *Dionex Benelux, Amsterdam, The Netherlands*
- TP 513 **Determination of Cysteine Redox Status of NADH Dehydrogenase in a Parkinson's Disease Mouse Model using a Optimized cICAT Approach;** Steven R. Danielson; Birgit Schilling; Rebeccah R. Riley; Bradford W. Gibson; Julie K. Andersen; *Buck Institute For Age Research, Novato, CA*
- TP 514 **Poly co-(N-isopropylacrylamide-methacrylic acid) (NIPAA-MAA) Brush Polymer Surfaces for the Selective Capture of Proteins from Complex Mixtures;** Ganga Fernando; Venney Wong; Gary R. Kinsel; Daniel J. Dyer; Loraine van Waasbergen; *Southern Illinois University at Carbondale, Carbondale, IL*

PROTEOMICS: PHOSPHORYLATION

515 - 526

- TP 515 **Robust Method for the Confident Location of Protein Phosphorylation Sites;** Nurhan Ozlu<sup>1</sup>; Dalila Bensadek<sup>1</sup>; Thomas Patterson<sup>1</sup>; Timothy Mitchison<sup>2</sup>; Hanno Steen<sup>1</sup>; Judith A.J. Steen<sup>1</sup>; <sup>1</sup>Harvard Medical School and Children's Hospital, Boston, MA; <sup>2</sup>Harvard Medical School, Boston, MA
- TP 516 **Phosm – A Software Tool for Comprehensive and Concise Mapping of Protein Phosphorylation Sites;** Andreas Schlosser<sup>1</sup>; Jens Vanselow<sup>2</sup>; Achim Kramer<sup>2</sup>; <sup>1</sup>Center for Systems Biology, ZBSA, Freiburg, Germany; <sup>2</sup>Laboratory of Chronobiology, Charité, Berlin, Germany
- TP 517 **Evaluation of the Sequence Specific Retention Time Calculator (SSRTCale) for High-content Hypothesis-Driven Phosphoproteomics by LC-MALDI-MS/MS;** Chi-Chi Chou<sup>1</sup>; Vincent C. Chen<sup>2</sup>; Hsin-Yu Hsieh<sup>1</sup>; Helene Perreault<sup>2</sup>; Kay-Hooi Khoo<sup>1</sup>; <sup>1</sup>National Core Facilities for Proteomics Research, Academia Sinica, Taipei, Taiwan; <sup>2</sup>University of Manitoba, Winnipeg, Manitoba, Canada
- TP 518 **Quantitative Analysis of Tyrosine Phosphorylation Produced Following Transactivation of the Epidermal Growth Factor Receptor (EGFR) by IGF-1;** Shi-Jian Ding; Wei-Jun Qian; Opresko Lee; Rui Zhao; Aleksey V Tolmachev; Athena A Schepmoes; Matthew E. Monroe; Steven Wiley; David G. Camp II; Richard D. Smith; *Pacific Northwest National Lab, Richland, WA*
- TP 519 **Time-resolved Quantitative Phosphoproteomic Analysis of Mast Cell Signaling;** Lulu Cao; *Brown University, Providence, RI*
- TP 520 **Stable Isotope Phosphoprotein Affinity Tagging (SIPAT) Approach for Quantitation of Protein**

TUESDAY POSTERS

POSTER SPACE

- TP 521 **Phosphorylation Degree; Yet-Ran Chen<sup>3</sup>**; Szu-Chiao Huang<sup>2</sup>; Yu-Ju Chen<sup>1</sup>; <sup>1</sup>*Academia Sinica, Taipei, Taiwan*; <sup>2</sup>*National Central University, Taoyuan, Taiwan*; <sup>3</sup>*National Taiwan Ocean University, Keelung, Taiwan*
- TP 522 **Quantitative Analysis of Protein Expression and Phosphorylation Associated with Adipocyte Differentiation by Yin-Yang MDLC-MS/MS; Su-Jun Li**; Jie Dai; Yi-Bo Wu; Xing-Lin Yang; Jia-Rui Wu; Yi-Xue Li; Rong Zeng; *Shanghai Institutes for Biological Sciences, Shanghai, China*
- TP 523 **Protein Phosphorylation Dynamics in Bacteria Investigated by SILAC and Quantitative Mass Spectrometry; Boris Macek<sup>1</sup>**; Boumediene Soufi<sup>2</sup>; Florian Gnad<sup>1</sup>; Ivan Mijakovic<sup>2</sup>; Matthias Mann<sup>1</sup>; <sup>1</sup>*MPI of Biochemistry, Martinsried, Germany*; <sup>2</sup>*Technical University of Denmark, Lyngby, Denmark*
- TP 524 **Quantitative Analysis of the Insulin Signalling Cascade using SILAC; Mark Larance<sup>1</sup>**; Michael Guilhaus<sup>2</sup>; David James<sup>1</sup>; <sup>1</sup>*Garvan Institute of Medical Research, Sydney, Australia*; <sup>2</sup>*BMSF, University of New South Wales, Sydney, Australia*
- TP 525 **Reference-facilitated Phosphoproteomics: Fast and Reliable Phosphopeptide Validation by Microle-ESI-Q-TOF MS/MS; Susumu Y. Imanishi**; Vitaly Kochin; Saima E. Ferraris; Aurélie de Thonel; Hanna-Mari Pallari; Garry L. Corthals; John E. Eriksson; *Turku Centre for Biotechnology, Turku, Finland*
- TP 526 **Quantitative Phosphoproteomics: High Sensitivity and Multiplexing Using Two-Stage IMAC Enrichment, iTRAQ labeling, and Linear Ion Trap/PQD; Wells W. Wu<sup>1</sup>**; Guanghui Wang<sup>1</sup>; Terry Zhang<sup>2</sup>; Paul A. Insel<sup>3</sup>; Rong-Fong Shen<sup>1</sup>; <sup>1</sup>*Proteomics Core Facility, NHLBI, NIH, Bethesda, MD*; <sup>2</sup>*Thermo Fisher Scientific, San Jose, CA*; <sup>3</sup>*University of California, San Diego, La Jolla, CA*
- TP 527 **Software Tool for Reference-facilitated Phosphoproteomics; Garry Corthals<sup>1</sup>**; Mikko K. Katajamaa<sup>3</sup>; Susumu Y. Imanishi<sup>2</sup>; John E. Eriksson<sup>2</sup>; <sup>1</sup>*Turku Centre for Biotechnology, Turku, Finland*; <sup>2</sup>*Abo Akademi University, Turku, Finland*; <sup>3</sup>*University of Turku, Turku, Finland*

**PROTEOMICS: LOWER ORGANISMS**  
527 - 546

- TP 527 **The Effect of Carbon Source on the *K. lactis* Secretome During Fermentation; Jack S. Benner**; Casey L. Swaim; Shamik Sharma; Brian Anton; Chris H. Taron; *New England Biolabs, Ipswich, MA*
- TP 528 **Proteomic Characterization of the Facultative Psychrophile *Pedobacter cryoconitis* Based on both <sup>15</sup>N Metabolic Labeling and de novo Sequencing; Ana G. Pereira-medrano<sup>1</sup>**; Rosa Margesin<sup>2</sup>; Phillip C. Wright<sup>1</sup>; <sup>1</sup>*University of Sheffield, Sheffield, United Kingdom*; <sup>2</sup>*Universität Innsbruck, Innsbruck, Austria*
- TP 529 **Environmental Proteomics of the OM43 Clade of Beta-proteobacteria in Oregon Coastal Seawater; Paul E. Abraham<sup>1</sup>**; Sarah M Sowell<sup>2</sup>; J.B. Kitner<sup>2</sup>; Mark G Lefsrud<sup>1</sup>; Manesh Shah<sup>1</sup>; Robert L. Hettich<sup>1</sup>; Nathan C. VerBerkmoes<sup>1</sup>; Steve J. Giovannoni<sup>2</sup>; <sup>1</sup>*Oak Ridge National Lab, Knoxville, TN*; <sup>2</sup>*Oregon State University, Corvallis, OR*
- TP 530 **Analysis of *Neisseria gonorrhoeae* Metabolism by Label-Free Quantitative Proteomics; Jinsam You<sup>1</sup>**; Dalai Yan<sup>2</sup>; Kerry Bemis<sup>1</sup>; Tony Tegeler<sup>1</sup>; Mu Wang<sup>1</sup>;

POSTER SPACE

- Jean-Pierre Wery<sup>1</sup>; <sup>1</sup>*INCAPS, Indianapolis, IN*; <sup>2</sup>*Indiana University School of Medicine, Indianapolis, IN*
- TP 531 **Proteogenomics of a Natural Microbial Community Before and After a Putative Phage Infection Show Species and Functional Perturbations; Nathan C. Verberkmoes<sup>1</sup>**; Paul Wilmes<sup>2</sup>; Vincent J. Deneft<sup>2</sup>; Mark Lefsrud<sup>1</sup>; Paul Abraham<sup>1</sup>; Manesh Shah<sup>1</sup>; Mya Breitbart<sup>3</sup>; Michael P. Thelen<sup>4</sup>; Jillian F. Banfield<sup>2</sup>; Robert L. Hettich<sup>1</sup>; <sup>1</sup>*Oak Ridge Nat'l Lab, Oak Ridge, TN*; <sup>2</sup>*University of California, Berkeley, Berkeley, CA*; <sup>3</sup>*University of South Florida, St. Petersburg, FL*; <sup>4</sup>*Lawrence Livermore National Laboratory, Livermore, CA*
- TP 532 **Pox Virion Structure via Relative Quantitative Proteomics; Paul D. Gershon<sup>1</sup>**; Wayne Chou<sup>1</sup>; Nadi Wickramesekera<sup>2</sup>; Paula Traktman<sup>2</sup>; <sup>1</sup>*University of California, Irvine, Irvine, CA*; <sup>2</sup>*Medical College of Wisconsin, Milwaukee, WI*
- TP 533 **Comparative Proteomic Analysis of the *Brugia malayi* Life Cycle; Zhaojing Meng<sup>1</sup>**; Roshanak T. Semnani<sup>2</sup>; David A. Lucas<sup>1</sup>; King Chan<sup>1</sup>; Haleem J. Issaq<sup>1</sup>; Timothy D. Veenstra<sup>1</sup>; Thomas B. Nutman<sup>2</sup>; <sup>1</sup>*SAIC-Frederick, Frederick, MD*; <sup>2</sup>*NIAID, Bethesda, MD*
- TP 534 **Proteomic Characterization of the Cyanobacteria *Cyanothece 51142*; Jon M. Jacobs<sup>1</sup>**; Eric A. Welsh<sup>2</sup>; Michelle Liberton<sup>2</sup>; Jana Stockel<sup>2</sup>; Carrie D. Nicora<sup>1</sup>; David G. Camp<sup>1</sup>; Himadri B. Pakrasi<sup>2</sup>; Richard D. Smith<sup>1</sup>; <sup>1</sup>*Pacific Northwest National Laboratory, Richland, WA*; <sup>2</sup>*Washington University, St. Louis, MO*
- TP 535 **Mass Spectrometric Determination of the N- and C-termini of *Zona Pellucida* Glycoproteins from *X. laevis* Eggs; Zhiguo Li<sup>1</sup>**; Ruben T. Almaraz<sup>2</sup>; Jerry L. Hedrick<sup>2</sup>; Fan Xiang<sup>3</sup>; Andreas Franz<sup>1</sup>; <sup>1</sup>*Department of Chemistry, University of the Pacific, Stockton, CA*; <sup>2</sup>*Department of Animal Sciences, UC Davis, Davis, CA*; <sup>3</sup>*Shimadzu Biotech Corp., Pleasanton, CA*
- TP 536 **Stable Isotope Labeling for Relative Protein Quantification in the Agronomically Important Filamentous Fungus *Aspergillus flavus*; D. Ryan Georgianna**; David C. Muddiman; Gary A. Payne; *North Carolina State University, Raleigh, NC*
- TP 537 **Proteomic Analysis of Oocyst Wall Proteins of *Cryptosporidium parvum*; Tianmin Huang**; Fayun Che; Hongshan Zhang; Carlos J. Madrid-Aliste; Qilie Luo; Edward Nieves; Kami Kim; Andras Fiser; Louis M. Weiss; Ruth Hogue Angeletti; *Albert Einstein College of Medicine, Bronx, NY*
- TP 538 **Two Dimensional Gel Separation Followed by ESI FT-ICR MS for Differential Membrane Proteome Analysis of *Borrelia burgdorferi*; Sudarslal Sadasivannair<sup>1</sup>**; Sukanya Narasimhan<sup>2</sup>; Doris E Terry<sup>3</sup>; Mark R Emmett<sup>1</sup>; Carol L Nilsson<sup>1</sup>; Erol Fikrig<sup>2</sup>; Alan G Marshall<sup>1</sup>; <sup>1</sup>*National High Magnetic Field Laboratory, FSU, Tallahassee, FL*; <sup>2</sup>*Department of Medicine, Yale University, New Haven, CT*; <sup>3</sup>*College of Medicine, FSU, Tallahassee, FL*
- TP 539 **Proteomic Investigation of the Hydrogen Producing Thermophilic Carboxydotherrmus Hydrogenoformans Grown with CO and Syngas; David Reed**; Joni Barnes; Cody Permann; Kastli Schaller; Vicki Thompson; *Idaho National Laboratory, Idaho Falls, ID*
- TP 540 **Identification of Key Membrane Proteins and Concomitant Analysis of Lipid Signatures in**

TUESDAY POSTERS

POSTER SPACE

- ANAMMOX Bacteria**; Roger Karlsson<sup>1</sup>; Anders Karlsson<sup>2</sup>; Ingela Lanekoff<sup>1</sup>; Anna Bredberg<sup>1</sup>; Ola Bäckman<sup>1</sup>; Stefan Hulth<sup>1</sup>; <sup>1</sup>*Göteborg University, Gothenburg, Sweden*; <sup>2</sup>*Nanoxis AB, Gothenburg, Sweden*
- TP 541 **Antimicrobial Compounds Induced during the Immune Response of *Neobellieria bullata* Larvae**; Miloslav Sanda<sup>1</sup>; Alice Cienicalova<sup>1</sup>; Josef Cvacka<sup>1</sup>; Vladimir Vrkoslav<sup>1</sup>; Radek Sindelka<sup>2</sup>; Bohumir Koutek<sup>1</sup>; <sup>1</sup>*Institute of Organic Chemistry and Biochemistry, Flemingovo n. 2 Prague 6, Czech Republic*; <sup>2</sup>*Institute of Molecular Genetics, Videnska 1083, Prague 4, Czech Republic*
- TP 542 **Profiling a Bacterial Proteome under Different Growth Conditions: Challenges and Solutions to Differential Proteomic Analysis**; Lewis K. Pannell<sup>1</sup>; Aimee M. Tucker<sup>2</sup>; Nicolas Verneuil<sup>2</sup>; Robert Alecio<sup>3</sup>; Mary L. Blackburn<sup>4</sup>; David O. Wood<sup>2</sup>; <sup>1</sup>*Mitchell Cancer Institute, Univ South Alabama, Mobile, AL*; <sup>2</sup>*Department of Microbiology & Immunology, Mobile, AL*; <sup>3</sup>*Positive Probability Limited, Isleham, UK*; <sup>4</sup>*ThermoFisher Scientific, Somerset, NJ*
- TP 543 **Proteome Analysis of *Aspergillus oryzae* for Precise Prediction of Protein Coding Regions and Protein Profiling**; Hanako Ataku; Miyako Mise; Keiko Nishijima; Jun Yamazaki; Kazumi Sasaki; Syuji Yamazaki; Nobuyuki Fujita; *National Institute of Technology and Evaluation, Tokyo, Japan*
- TP 544 **Identification of *Staphylococcus aureus* Exoproteins by Two Dimensional Liquid Chromatography-Mass Spectrometry**; Shobha Ravipaty; Lindsay, E. Darling; James, P. Reilly; *Department of Chemistry, Indiana University, Bloomington, IN*
- TP 545 **Microbial Proteome q-Value Cut-Off Calibration for Quantitative Proteomics**; Tiansong "Tony" Wang; Qiangwei Xia; Murray Hackett; *University of Washington, Seattle, WA*
- TP 546 **A Proteomics Investigation of Predicted Pathways in *Desulfovibrio vulgaris***; Alyssa M. Redding<sup>1</sup>; Aindrila Mukhopadhyay<sup>1</sup>; Sara Gaucher<sup>1</sup>; Marcin Joachimiak<sup>1</sup>; Dominique C. Joyner<sup>1</sup>; Jizhong Zhou<sup>1</sup>; Terry C. Hazen<sup>1</sup>; Jay D. Keasling<sup>1</sup>; <sup>1</sup>*Virtual Institute of Microbial Stress & Survival, Berkeley, CA*; <sup>2</sup>*UC Berkeley, Berkeley, CA*; <sup>3</sup>*Lawrence Berkeley National Laboratory, Berkeley, CA*; <sup>4</sup>*Sandia National Laboratory, Livermore, CA*; <sup>5</sup>*Oklahoma University, Norman, OK*

**PROTEOMICS: MEDICAL II**  
547 - 565

- TP 547 **Identification of eIF4E Transcription Factor Sensitivity Element mRNA-Protein Interactions**; Katherine LB Borden<sup>1</sup>; Michael J Osborne<sup>1</sup>; Nadeem Siddiqui<sup>1</sup>; Laurent Volpon<sup>1</sup>; Ivan Topisirovic<sup>1</sup>; Mike Aguiar<sup>2</sup>; Bernard F Gibbs<sup>2</sup>; <sup>1</sup>*Dept. of Pathology and Cell Biology, U de Montreal, Montreal, Canada*; <sup>2</sup>*Sheldon Biotechnology Center, McGill University, Montreal, Canada*
- TP 548 **Development of a Highly Sensitive High-Throughput Mass Spectrometry-Based Assay for Rat Procollagen Type-I N-Terminal Propeptide (PINP)**; Bomie Han<sup>1</sup>; Laura Hale<sup>1</sup>; Masahiko Sato<sup>1</sup>; Jinsam You<sup>2</sup>; Marci Copeland<sup>2</sup>; John Hale<sup>1</sup>; <sup>1</sup>*Eli Lilly and Co, Indianapolis, IN*; <sup>2</sup>*INCAPS, Indianapolis, IN*
- TP 549 **Detection and Diagnosis of Genetic Disorders of Glycosylation using an MRM-driven Targeted Approach on a Triple Quadrupole Linear Ion Trap**;

POSTER SPACE

- Michelle L. Colgrave<sup>1</sup>; Alun Jones<sup>2</sup>; Teresa Munce<sup>3</sup>; Francis G Bowling<sup>3</sup>; <sup>1</sup>*Applied Biosystems, Brisbane, Australia*; <sup>2</sup>*Institute for Molecular Bioscience, Brisbane, Australia*; <sup>3</sup>*Mater Children's Hospital, South Brisbane, Australia*
- TP 550 **Immunoregulation of Transforming Growth Factor-β and Interleukin-6**; Fong-Wei You<sup>1</sup>; Chao-lin Liu<sup>2</sup>; Ya-ken Chen<sup>1</sup>; Jyp-Ping Tsai<sup>3</sup>; Hsin-Wei Chen<sup>3</sup>; Wei-Kang Wu<sup>1</sup>; Chia-ruai Shen<sup>1</sup>; <sup>1</sup>*Chang Gung University, Kwei-Shan, Tao-Yuan, Taiwan*; <sup>2</sup>*MingChi University of Technology, Taishan, Taipei, Taiwan*; <sup>3</sup>*National Health Research Institutes, Chunan, Hsinchu, Taiwan*
- TP 551 **Bone Proteomics of Osteoporosis Patients using ITRAQ technology**; Patrik Onnerfjord; Dick Heinegård; *Lund University, Lund, Sweden*
- TP 552 **Quantitative Proteomic Analysis of Diabetic Mouse Pancreatic Islets by iTraq and Mass Spectrometry**; Ying Yang; Hongfang Lu; Michael Wheeler; *University of Toronto, Toronto, ON, Canada*
- TP 553 **Proteomic Analysis of the Human Endometrial Secretome**; Mihaela Mocanu<sup>2</sup>; Viorel Mocanu<sup>2</sup>; Nedyalka Dicheva<sup>2</sup>; Jessica Scotchie<sup>1</sup>; Marc Fritz<sup>1</sup>; Maria Warren<sup>2</sup>; Steven Young<sup>1</sup>; Carol Parker<sup>2</sup>; Xian Chen<sup>2</sup>; <sup>1</sup>*Obstetrics & Gynecology, UNC - Chapel Hill, Chapel Hill, NC*; <sup>2</sup>*UNC-Duke Proteomics Center, Chapel Hill, NC*
- TP 554 **Classification of Calcium Oxalate, Phosphate and Brushite Kidney Stones by Protein Content**; LeeAnn Higgins<sup>1</sup>; Benjamin K. Canales<sup>2</sup>; Lorraine B. Anderson<sup>2</sup>; Joel W. Slaton<sup>2</sup>; Nathan W. Liu<sup>2</sup>; Ken P. Roberts<sup>2</sup>; Manoj Monga<sup>2</sup>; <sup>1</sup>*University of MN, St. Paul, MN*; <sup>2</sup>*University of Minnesota, Minneapolis, MN*
- TP 555 **Identification of Novel Proteins in Activated Human T cells that Drive Macrophage Activation and Cytokine Production**; Karen R. Jonscher; Li Li; Bjoern Schneidewind; Ling-Jia Hu; David Norris; Carl K. Edwards; *Univ. of CO Health Sciences Center, Denver, CO*
- TP 556 **A Differential Proteome Analysis of Normal and Osteoarthritic Chondrocytes Points to Distortion of Vimentin Organisation in Osteoarthritis**; Stijn Lambrecht; Gust Verbruggen; Peter C.M. Verdonk; Dirk Elewaut; Dieter Deforce; *Ghent University, Gent, Belgium*
- TP 557 **Quantitative Profiling of Bax-Associated Proteins in Modulation of TRAIL-Induced Apoptosis**; Peng Wang<sup>1</sup>; Andy Lo<sup>1</sup>; Raymond Lai<sup>1</sup>; Chunhai Hao<sup>2</sup>; Liang Li<sup>1</sup>; <sup>1</sup>*University of Alberta, Edmonton, Canada*; <sup>2</sup>*Emory University, Atlanta, GA*
- TP 558 **Secretome of Primary Cultures of Human Adipose-Derived Stem Cells (ASCs): Modulation of Serpins by Adipogenesis**; Indu Kheterpal<sup>1</sup>; Sanjin Zvonic<sup>1</sup>; Michael Lefevre<sup>1</sup>; Gail Kilroy<sup>1</sup>; Z. Elizabeth Floyd<sup>1</sup>; James P. DeLany<sup>2</sup>; Amy Gravois<sup>1</sup>; Angie White<sup>1</sup>; Xiying Wu<sup>1</sup>; Jeffrey M. Gimble<sup>1</sup>; <sup>1</sup>*Pennington Biomedical Research Center, Baton Rouge, LA*; <sup>2</sup>*University of Pittsburgh, Pittsburgh, PA*
- TP 559 **The Application of Proteomics Methodology to Influenza Vaccine Formulations**; Terry D. Cyr; Diane Bertrand; Michel Girard; Virginia Garcia-Canas; Barry Lorbettskie; *Health Canada, Ottawa, Canada*
- TP 560 **Comprehensive Proteomic Profiling of Placenta-Derived Adherent Cells (PDACs)**; Neerav D. Padliya<sup>1</sup>; Roger G. Biringer<sup>2</sup>; Christopher W. Lugo<sup>1</sup>; Hemlata Rana<sup>1</sup>; Mohit B. Bhatia<sup>1</sup>; Andreas F. R. Hühmer<sup>2</sup>;

TUESDAY POSTERS

POSTER SPACE

- Wolfgang T. Hofgartner<sup>1</sup>; Robert J. Hariri<sup>1</sup>; <sup>1</sup>*Celgene Cellular Therapeutics, Summit, NJ*; <sup>2</sup>*Thermo Fisher Scientific, San Jose, CA*
- TP 561 **Post-Translational Modifications in the Rat Lumbar Spinal Cord in Experimental Autoimmune Encephalomyelitis (EAE);** Jennifer E. Grant<sup>1</sup>; Jun Hu<sup>1</sup>; Tong Liu<sup>1</sup>; Mohit R. Jain<sup>1</sup>; Stella Elkabes<sup>2</sup>; Hong Li<sup>1</sup>; <sup>1</sup>*UMDNJ Medical School Cancer Center, Newark, NJ*; <sup>2</sup>*UMDNJ Neuroscience and VA Neurology Service, Newark, NJ*
- TP 562 **Nitrotyrosine-Containing Proteins in Diabetic Rat Retina and Müller Cells;** Xianquan Zhan<sup>1</sup>; Yunpeng Du<sup>2</sup>; John S. Crabb<sup>1</sup>; Timothy S. Kern<sup>2</sup>; John W. Crabb<sup>1</sup>; <sup>1</sup>*Cole Eye Institute, Cleveland Clinic Foundation, Cleveland, OH*; <sup>2</sup>*Dept. of Medicine, Case Western Reserve Univ., Cleveland, OH*
- TP 563 **Mass Spectrometry Based Proteogenomic Characterization of the Human Gut Microflora from Crohn's Patients;** Alison Russell<sup>1</sup>; M. Rosenquist<sup>2</sup>; M.G. Lefsrud<sup>1</sup>; M. Shah<sup>1</sup>; L. Engstrand<sup>3</sup>; C. Tysk<sup>4</sup>; J. Halfvarsson<sup>4</sup>; N.C. VerBerkmoes<sup>1</sup>; R.L. Hettich<sup>1</sup>; J. Jansson<sup>2</sup>; <sup>1</sup>*Oak Ridge National Lab, Knoxville, TN*; <sup>2</sup>*Swedish Univ. of Agriculture Sciences, Uppsala, Sweden*; <sup>3</sup>*Swedish Institute for Infectious Disease Control, Solna, Sweden*; <sup>4</sup>*Orebro Univ. Hospital, Orebro, Sweden*
- TP 564 **A Targeted Comparative Proteomic Approach for Identification of Phosphorylation Dependant Protein-Protein Interactions of  $\alpha$ -Synuclein;** Melinda A. McFarland<sup>1</sup>; Christopher E. Ellis<sup>1</sup>; Sanford P. Markey<sup>1</sup>; Robert L. Nussbaum<sup>2</sup>; <sup>1</sup>*National Institute of Mental Health, NIH, Bethesda, MD*; <sup>2</sup>*Dept of Medicine, UCSF, San Francisco, CA*
- TP 565 **Quantitation of Dystrophin Protein in Muscle Biopsies from Patients with Muscular Dystrophy using Isotope-Coded Affinity Tag Analysis;** Jung Yoon; Jerry Mendell; Paul T Martin; *Columbus Children's Research Institute, Columbus, OH*

**PROTEOMICS: SAMPLE PREPARATION & METHODS  
(NON-GEL BASED)  
566 - 583**

- TP 566 **Microfabricated Monolithic RP Column Arrays as the Fraction Collector for Offline First Dimension SCX Separation in 2D-LC-ESI-MS Proteomic Analysis;** Jian Liu; Daniel R. Knapp; *Medical University of South Carolina, Charleston, SC*
- TP 567 **Optimization of LC/MS/MS and LC/LC/MS/MS for Plasma Proteomics;** Yan Wu; Carol E. Parker; Xian Chen; *University of North Carolina, Chapel Hill, NC*
- TP 568 **The Detection of Protein Toxins in Food Matrices using Immunoaffinity in Combination with Mass Spectrometry;** John H. Callahan; Fenhong Song; Kevin Shefcheck; *FDA/CFSAN, College Park, MD*
- TP 569 **Rapid and Quantitative Proteomic Analysis of Human Skin Biopsy Samples;** Erika P. Parkinson<sup>1</sup>; Paul J Skipp<sup>1</sup>; Maja Aleksic<sup>2</sup>; Daniel J Scott<sup>2</sup>; Geraldine Clough<sup>3</sup>; C David O'Connor<sup>1</sup>; <sup>1</sup>*Univ of Southampton, Southampton, UK*; <sup>2</sup>*Unilever, Bedford, UK*; <sup>3</sup>*School of Medicine, Univ of Southampton, Southampton, UK*
- TP 570 **Recognizing Quaternary Structure during Global Proteomics;** Xiuping Liu; Fred Regnier; Qiang Gao; Wen-chu Yang; *Purdue University, West Lafayette, IN*
- TP 571 **Utility of an Absolute Quantitation Method for Optimizing On-Column Protein Load in Qualitative and Quantitative Proteomics;** Craig A. Dorschel<sup>1</sup>;

POSTER SPACE

- Jeffrey C. Silva<sup>1</sup>; Johannes P.C. Vissers<sup>2</sup>; Scott J. Geromanos<sup>1</sup>; Krisha Panchalingam<sup>3</sup>; Christopher Utzat<sup>3</sup>; James L. Sherley<sup>3</sup>; <sup>1</sup>*Waters Corporation, Milford, MA*; <sup>2</sup>*Waters Corporation, Manchester, UK*; <sup>3</sup>*Massachusetts Institute of Technology, Cambridge, MA*
- TP 572 **Rapid Polypeptide Identification in Complex Biological Samples through Integration of Electrophoretic Fractionation, Reversed-Phase Capture and MALDI Analysis;** M. Lisa Manier; Hans-R. Aerni; Richard M. Caprioli; *Vanderbilt University, Nashville, TN*
- TP 573 **Robust 2D HPLC Protocols for Functional Proteomics Sample Preparation;** Kerry Nugent; Eric Kemp; Lori Ann Upton; *Michrom Bioresources, Inc., Auburn, CA*
- TP 574 **Using Polymeric Reverse Micelles to Obtain Highly Selective Fractionation of Peptides from Protein Digests for MALDI-MS Analysis;** Marianny Y. Combariza; Elamprakash Savariar; Sankaran Thayumanavan; Richard W. Vachet; *Chemistry Department, University of Massachusetts, Amherst, MA*
- TP 575 **A Rapid and Simple Method for Identification of Metallothionein Isoforms in Cultured Human Prostate Cells by MALDI-TOF/TOF Mass Spectrometry;** Rongying Wang; Donald A. Sens; Amy Albrecht; Scott Garrett; Seema Somji; Mary Ann Sens; Xiaoning Lu; *University of North Dakota, Grand Forks, ND*
- TP 576 **Protein Concentration and Tryptic Digestion at a pH Junction of Discontinuous Buffers using Capillary Electrophoresis for MALDI-MS Analysis;** Chandra Nesbitt; Ken K.-C. Yeung; *University of Western Ontario, London, Canada*
- TP 577 **Enabling SDS-Assisted Proteome Analysis by Tandem Column HPLC for Peptide Purification;** Nan Wang; Liang Li; *Department of Chemistry, University of Alberta, Edmonton, Canada*
- TP 578 **Detection, Confirmation, and Quantification of Allergens in Chocolate using MALDI and LC/MS/MS;** Fenhong Song; Kevin Shefcheck; John H. Callahan; *FDA/CFSAN, College Park, MD*
- TP 579 **Characterization of Liquid Chromatography Strategies to Separate Intact Proteins and its Application to Top-Down Proteomics;** Timothy S Collier; David C Muddiman; D. Keith Williams, Jr; Adam M Hawkrige; G. Ryan Georgianna; Gary A Payne; *North Carolina State University, Raleigh, NC*
- TP 580 **Specific Isolation of Cys-containing Peptides from Yeast Cell Lysates;** Mark J. Raftery; *Cytokine Research Unit, Kensington, Australia*
- TP 581 **Do You Think SCX Mode is the Most Effective Ways as 1st Dimension of 2D-LC-MS/MS Analysis for Whole Tissue Proteomics?;** Tatsuji Nakamura; Yoshiya Oda; Toshitaka Sato; Junro Kuromitsu; *Eisai Co., Ltd., Tsukuba, Japan*
- TP 582 **A Three-Dimensional Proteomic Approach for the Study of Different Regions of the Rat Brain;** Kristi S. Rau<sup>1</sup>; Annette E. Fleckenstein<sup>2</sup>; Christina M. Markl<sup>1</sup>; Michael H. Simonian<sup>1</sup>; <sup>1</sup>*Beckman Coulter, Inc., Fullerton, CA*; <sup>2</sup>*University of Utah, Salt Lake City, UT*
- TP 583 **Measuring Neuropeptides in the Brain: Postmortem Degradation of Endogenous Peptides;** Michael L Heien; Suresh Annangudi; Nathan Hatcher; Jonathan Sweedler; *University of Illinois, Urbana, IL*

## WEDNESDAY POSTERS

### POSTER SPACE

7:30 – 8:00 am..... All Wednesday posters should be set  
 10:15 am – 2:30 pm..... Wednesday poster authors should be present  
 11:45 am – 12:15 pm..... Lunch break for odd-numbered posters  
 12:15 – 12:45 pm ..... Lunch break for even-numbered posters  
 7:30 – 8:00 pm ..... Remove all Wednesday posters

Ambient Ionization II.....	004 - 022
Ionization Mechanisms .....	023 - 035
MALDI Sample Preparation I.....	036 - 051
Imaging: Instrumentation .....	052 - 080
Instrumentation: Quadrupoles and Ion Traps I.....	081 - 096
Ion Mobility: Instrumentation and Methods.....	097 - 108
Ion Molecule Reactions.....	109 - 123
Ion Structures / Energetics II.....	124 - 141
Non-Covalent Complexes .....	142 - 166
LC/MS.....	167 - 181
LC/MS Sample Preparation.....	182 - 192
Microscale Separations .....	193 - 204
Environmental Analysis: Methods .....	205 - 227
Forensics .....	228 - 245
High Throughput Analysis / Robotics I.....	246 - 257
Bioinformatics: Data Processing.....	258 - 287
Carbohydrates and Oligosaccharides III.....	288 - 302
Clinical Chemistry .....	303 - 319
Drug Metabolism: Quantitation.....	320 - 337
Drug Metabolism: Reactive Metabolites.....	338 - 347
Metabolites (Endogenous): Non-Targeted Analysis.....	348 - 360
Metabolomics: Methods and Procedures.....	361 - 378
Xenobiotics .....	379 - 392
Natural Products I .....	393 - 408
Lipids .....	409 - 422
Microbial Analysis II .....	423 - 437
Nucleic Acids I.....	438 - 454
Proteins: Folding.....	455 - 464
Proteomics: Biochemistry .....	465 - 482
Proteomics: Cancer Biomarkers I.....	483 - 502
Proteomics: New and Improved Methods III .....	503 - 522
Proteomics: Phosphorylation.....	523 - 538
Proteomics: Quantitation Techniques I .....	539 - 556
Quantitation: Methods and Applications.....	557 - 572

<b>AMBIENT IONIZATION II</b>
<b>004 - 022</b>

WP 004	<b>Desorption Electrospray Ionization - Mass Spectrometry (DESI-MS): Analysis of Trace Organic Contaminants on Glass Substrates Intended for Optical Applications;</b> <u>Rob Burkhalter</u> ; Liepin Huang; Masato Tomita; Krishna Nath; <i>Corning, Inc., Corning, NY</i>
WP 005	<b>Effect of Spray Plume Characteristics on Desorption and Ionization in DESI;</b> <u>Sofie P. Pasilis</u> ; Vilmos Kertesz; Gary J. Van Berkel; <i>Oak Ridge National Laboratory, Oak Ridge, TN</i>
WP 006	<b>Mass Spectral Analysis of Vitamin D2 and D3 using Desorption Electrospray Ionization;</b> <u>Dina Justes</u> <sup>1</sup> ; George Haas <sup>2</sup> ; Gianluca Dimartino <sup>2</sup> ; Carol Zrybko <sup>2</sup> ; R.

### POSTER SPACE

Graham Cooks <sup>1</sup> ; <sup>1</sup> <i>Purdue University, West Lafayette, IN;</i> <sup>2</sup> <i>Kraft Foods Inc., Glenview, IL</i>	
WP 007	<b>On-Probe Pyrolysis DESI-MS and Atmospheric Pressure Thermal Desorption-ESI-MS for the Analysis of Non-Volatile and Volatile Pyrolysis Products;</b> <u>Franco Basile</u> <sup>1</sup> ; Shaofeng Zhang <sup>1</sup> ; Yong-Seung Shin <sup>1</sup> ; Richard Mayer <sup>2</sup> ; <sup>1</sup> <i>University of Wyoming, Laramie, WY;</i> <sup>2</sup> <i>USDA-ABDRL, U. of Wyoming, Laramie, WY</i>
WP 008	<b>Amino-Acids Analysis by Desorption Electrospray Ionization by a Quadrupolar Tandem Mass Spectrometer;</b> <u>Gaetano Corso</u> ; Giuseppe Paglia; Daniela Garofalo; Oceania D'Apolito; <i>Università di Foggia, Foggia, Italy</i>
WP 009	<b>Rapid Spatial Mapping of Chemicals Dispersed Across Surfaces using an Autosampler /DART/TOFMS;</b> <u>Andrew H. Grange</u> ; G. Wayne Sovocool; <i>U.S. EPA, ORD, Environmental Sciences Division, Las Vegas, NV</i>
WP 010	<b>Selective Detection of Oligosaccharides using Reactive Desorption Electrospray Ionization (DESI);</b> <u>Hao Chen</u> ; Dina R. Justes; R. Graham Cooks; <i>Purdue University, West Lafayette, IN</i>
WP 011	<b>Reactive Desorption Electrospray Ionization for the Analysis of Cyclodextrin Host:Guest Inclusion Complexes;</b> <u>Joanna E. Barbara</u> ; Ronald K. Castellano; John R. Eyler; David H. Powell; <i>University of Florida, Gainesville, FL</i>
WP 012	<b>Mechanistic Studies of Surface Effects by Desorption Electrospray Ionization;</b> <u>Santosh Soparawalla</u> ; Andre Venter; Graham Cooks; <i>Purdue University Dept. of Chemistry, West Lafayette, IN</i>
WP 013	<b>New Enclosed DESI Source for Improved Safety and Ion Transport and Reduced Signal Dependence on Operating Conditions;</b> <u>Andre Venter</u> ; Santosh Soparawalla; R.Graham Cooks; <i>Purdue University, West Lafayette, IN</i>
WP 014	<b>Surface Analysis and Chemical Imaging with DESI: Technology-Related Challenges and Solutions;</b> <u>Vilmos Kertesz</u> ; Gary J. Van Berkel; Sofie P. Pasilis; <i>Oak Ridge National Lab, Oak Ridge, TN</i>
WP 015	<b>Performance Study of an Extended Length Particle Discriminator Interface for Desorption Electrospray Ionization;</b> <u>Gary J. Van Berkel</u> <sup>1</sup> ; Vilmos Vilmos Kertesz <sup>1</sup> ; Bradley B. Schneider <sup>2</sup> ; Thomas R. Covey <sup>2</sup> ; <sup>1</sup> <i>Oak Ridge National Laboratory, Oak Ridge, TN;</i> <sup>2</sup> <i>MDS SCIEX, Concord, ON, Canada</i>
WP 016	<b>Rapid <i>in-vivo</i> Analysis of Biofilms by DESI;</b> <u>Nari Talaty</u> ; Yishu Song; Yi-ju Hsieh; Kirill Datsenko; Barry L. Wanner; R. Graham Cooks; <i>Purdue University, West Lafayette, IN</i>
WP 017	<b><i>In-vivo</i> Mass Spectrometry – Application of Desorption Electrospray Ionization in Surgical Environment;</b> <u>Zoltan Takats</u> <sup>1</sup> ; Reka Skoumal <sup>3</sup> ; Maria Katona <sup>2</sup> ; Blanka Toth <sup>1</sup> ; Miklos Toth <sup>3</sup> ; <sup>1</sup> <i>Semmelweis University, Budapest, Hungary;</i> <sup>2</sup> <i>National Medical Center, Budapest, Hungary;</i> <sup>3</sup> <i>Gottsegen National Institute of Cardiology, Budapest, Hungary</i>
WP 018	<b>Analysis of Thin Layer Chromatography Plates with Direct Analysis in Real Time Mass Spectrometry;</b> <u>Julia L. Rummel</u> ; John R. Eyler; David H. Powell; <i>University of Florida, Gainesville, FL</i>
WP 019	<b>New Development of Thin Layer Chromatography / Time-of-flight Mass Spectrometry with DART;</b> <u>Akihiko Kusai</u> <sup>1</sup> ; Kiyotaka Konuma <sup>1</sup> ; Mai Kobayashi <sup>1</sup> ;



WEDNESDAY POSTERS

POSTER SPACE

- David Vargas<sup>2</sup>; <sup>1</sup>JEOL Ltd., Akishima, Japan; <sup>2</sup>JEOL USA, Inc., Peabody, MA
- WP 020 **Reactive Fused Droplet Electrospray Ionization Mass Spectrometry**; Marcos N Eberlin; Yuri Eberlim Corilo; Rodrigo Ramos Catharino; Patricia Verardi Abdelnur; State University of Campinas - UNICAMP, Campinas, SP, Brazil
- WP 021 **Desorption Electrospray Ionization Mass Spectrometry for Rapid and Direct Detection of Low Vapor Pressure Chemical and Biological Threat Agent Simulants**; Nathan A. Hagan; Miquel D. Antoine; Timothy J. Cornish; Timothy P. Lippa; Alan F. Becknell; Plamen A. Demirev; JHU Applied Physics Laboratory, Laurel, MD
- WP 022 **DESI-MS of Intact Bacteria: Application to Microorganism Profile-Based and Biomarker-Based Biodetection**; Yong-Seung Shin<sup>1</sup>; Richard Mayer<sup>2</sup>; Franco Basile<sup>1</sup>; <sup>1</sup>University of Wyoming, Laramie, WY; <sup>2</sup>USDA -ABDRL U. of Wyoming, Laramie, WY

**IONIZATION MECHANISMS  
023 - 035**

- WP 023 **Positive and Negative Ion Yields in Matrix-Assisted Laser Desorption Ionization Mass Spectrometry**; Maxim Dashiev<sup>1</sup>; Esther Wäfler<sup>1</sup>; Michael Gorshkov<sup>2</sup>; Franz Hillenkamp<sup>3</sup>; Ullrich Roehling<sup>3</sup>; Renato Zenobi<sup>1</sup>; <sup>1</sup>ETH Zurich, Zurich, Switzerland; <sup>2</sup>Institute for Energy Problems of Chemical Physics, Moscow, Russia; <sup>3</sup>Institute of Medical Physics and Biophysics, Münster, Germany
- WP 024 **Investigating Fragmentation Mechanisms of Atmospheric Pressure Chemical Ionization Using a Homebuilt Portable Rectilinear Ion Trap Mass Spectrometer**; Nathaniel Sanders; Christopher C. Mulligan; Nari Talaty; R. Graham Cooks; Purdue University, West Lafayette, IN
- WP 025 **Dissecting the Role of Matrix Functional Groups for a High-performance MALDI Matrix**; Thorsten Jaskolla; Michael Karas; JWG University Frankfurt, Frankfurt / Main, Germany
- WP 026 **Internal Energy of Ions Desorbed from Laser Desorption using Carbon Nanotubes and Applications**; Christelle Kotanian<sup>1</sup>; Sandra Alves<sup>1</sup>; Denis Lesage<sup>1</sup>; Daniel Reynes<sup>2</sup>; Fabrice Modeste<sup>2</sup>; Jean Claude Tabet<sup>1</sup>; <sup>1</sup>Université Pierre et Marie Curie, Paris, France; <sup>2</sup>Centre d'Etudes du Bouchet, Vert le Petit, France
- WP 027 **Optimization of a Germanium Nanodot Chip as an Ionization Platform for Matrix-Free Soft Laser Desorption/Ionization-Mass Spectrometry**; Atsushi Nemoto; Hiroaki Sato; Atsushi Yamamoto; Masaki Torimura; Hiroaki Tao; Natl. Inst. Adv. Ind. Sci. Technol. (AIST), Tsukuba, Japan
- WP 028 **Resonant Electron Capture by Some Amino Acid Esters**; Yury V Vasilev; Benjamin J. Figard; Douglas F. Barofsky; Max L. Deinzer; Oregon State University, Corvallis, Or
- WP 029 **A Density Functional Investigation on the Secondary Processes in Matrix-assisted Laser Desorption Ionization**; Francesco L Brancia<sup>1</sup>; Mauro Stener<sup>2</sup>; <sup>1</sup>SRL, Manchester, United Kingdom; <sup>2</sup>University of Trieste, Trieste, Italy
- WP 030 **A Systematic Study on the Geometric Factors of Alumina Nanohole Arrays and Coating Metals for Surface-Assisted Laser Desorption/Ionization of Biomolecules**; Yoshinao Wada<sup>1</sup>; Takashi Yanagishita<sup>2</sup>;

POSTER SPACE

- Hideki Masuda<sup>3</sup>; <sup>1</sup>Osaka MCHRI & Osaka University, Izumi, Osaka, Japan; <sup>2</sup>Kanagawa Academy of Science and Technology, Sagami-hara, Kanagawa, Japan; <sup>3</sup>Tokyo Metropolitan University, Hachioji, Tokyo, Japan
- WP 031 **A Mathematical Model to Interpret Electrochemical Potential and Current Maps in the Electrospray Capillary**; Boguslaw P. Pozniak; Richard B. Cole; University of New Orleans, New Orleans, LA
- WP 032 **Verification of Mid-Infrared Matrix-Assisted Desorption/Ionization for Direct Protein Analysis**; Sachiko Suzuki; Izuru Sato; Kunio Awazu; Osaka University, Osaka, Japan
- WP 033 **Electrochemical/Electrospray-Mass Spectrometric Studies of the Oxidation of Cyanide at Platinum Electrode**; Tan Guo<sup>1</sup>; Michael Arndt<sup>1</sup>; William Sonzogni<sup>1</sup>; Andreas Illies<sup>2</sup>; <sup>1</sup>Wisconsin State Lab of Hygiene, Univ. of Wisconsin, Madison, WI; <sup>2</sup>Department of Chemistry, Auburn University, Auburn, GA
- WP 034 **Internal Energy Distributions of Ions Produced by a Source Based on Penning Ionization**; Christelle Kotanian; Denis Lesage; Sandra Alves; Jean-Claude Tabet; Université Pierre et Marie Curie Paris6, Paris, France
- WP 035 **Internal Energy Distribution of Ions Produced in DESI and the Influence of Source Parameters on Internal Energy**; Jonell Smith; Marcela Nefliu; Andre Venter; R. Graham Cooks; Purdue University, West Lafayette, IN

**MALDI SAMPLE PREPARATION I  
036 - 051**

- WP 036 **Solvent-free MALDI Mass Spectrometry for the Analysis of Metallo-supramolecular Complexes**; Yun Ling; Marshall Lapawa; Mark MacLachlan; University of British Columbia, Vancouver, Canada
- WP 037 **New Matrix-free Substrates for Laser Desorption/Ionization Mass Spectrometry: Silica Modified Stainless-Steel**; Joeng Heon Lee<sup>2</sup>; Mi Young Ha<sup>2</sup>; Yangsun Kim<sup>1</sup>; <sup>1</sup>Hudson surface Technology, Newark, NJ; <sup>2</sup>ASTA, Suwon, Korea
- WP 038 **MALDI Target Plates Utilizing Micro-Well Technology**; Bruce N. Laprade<sup>1</sup>; Kevin Owens<sup>2</sup>; Sharon R. Mrotek<sup>1</sup>; <sup>1</sup>Burle Electro Optics, Sturbridge, MA; <sup>2</sup>Department of Chemistry, Drexel University, Philadelphia, PA
- WP 039 **Laser Desorption/Ionization from Pt Coated Anodic Porous Alumina Surface**; Takafumi Sato<sup>1</sup>; Takaya Satoh<sup>1</sup>; Tim Hawkins<sup>2</sup>; Yoshinao Wada<sup>3</sup>; Hideki Masuda<sup>4</sup>; Takashi Yanagishita<sup>4</sup>; Jun Tamura<sup>1</sup>; <sup>1</sup>JEOL Ltd., Tokyo, Japan; <sup>2</sup>JEOL USA Inc., Peabody, MA; <sup>3</sup>Osaka Medical Center for Maternal and Child Health, Osaka, Japan; <sup>4</sup>Kanagawa Academy of Science and Technology, Kawasaki, Japan
- WP 040 **Two Needles, One Sample: Demonstration of a Dual Spray Electrospray Deposition System**; William J. Erb; Wolfgang Nadler; Kevin G. Owens; Drexel University, Philadelphia, PA
- WP 041 **One-Way Diamond-Like-Carbon (DLC) MALDI Target for Multi Purpose Applications**; Peter Hausberger<sup>1</sup>; Wolfgang Winkler<sup>2</sup>; Christian Huck<sup>3</sup>; Muhammad Nadjam-Ul-Haq<sup>3</sup>; Matthias Rainer<sup>3</sup>; Günter Allmaier<sup>2</sup>; Harald Kraushaar<sup>1</sup>; Günther Bonn<sup>3</sup>; <sup>1</sup>Sony DADC, Anif, Austria; <sup>2</sup>Vienna University of Technology, Vienna, Austria; <sup>3</sup>Leopold Franzens University of Innsbruck, Innsbruck, Austria

WEDNESDAY POSTERS

POSTER SPACE

- WP 042 **Effects of Matrix Crystal Size on Ion Formation in Matrix-Assisted Laser Desorption/Ionization;** Thorsten Jaskolla<sup>1</sup>; Michael Karas<sup>1</sup>; Kerstin Steinert<sup>2</sup>; Udo Roth<sup>2</sup>; Christoph Menzel<sup>2</sup>; Karsten Reihls<sup>3</sup>; <sup>1</sup>*Institute of Pharmaceutical Chemistry, Frankfurt am Main, Germany;* <sup>2</sup>*Qiagen GmbH, Hilden, Germany;* <sup>3</sup>*AMF GmbH, Köln, Germany*
- WP 043 **MALDI Mass Spectrometry of Saponins from Quillaja Saponaria;** Xiaorong (Sharon) Wei; Richard J. Porambo; Steven L. Cohen; *Merck Research Laboratories, West Point, PA*
- WP 044 **Monolayer Enhanced Gold Nanoparticles for Laser Desorption/Ionization Mass Spectrometry;** Edward T. Castellana; Russell H. David; *Texas A&M University, College Station, TX*
- WP 045 **Comparison of MALDI Matrices for Peptidomic Profiling of Cell Culture Samples;** Kevin McCowen; Steven Taylor; Soumitra Ghosh; *Amylin Pharmaceuticals, Inc., San Diego, CA*
- WP 046 **Comparison of Recrystallised Matrix Preparation Methodologies Used for Peptide Detection in MALDI-TOFMS;** D J Evason; V C Parr; S P Thompson; M D Mills; A J Polley; *SAI, Manchester, United Kingdom*
- WP 047 **MALDI-MS Sample Preparation – When Change is Bad;** Steven L. Cohen; *Merck Research Laboratories, West Point, PA*
- WP 048 **Ca<sup>2+</sup>-Dependent Deuterium Exchange Properties of EF-hand Calcium-binding Proteins Calmodulin and S100 are Useful to Monitor MALDI HDX Efficiency;** Peter L. Pingerelli; Victor V. Ozols; Carly R. Anderson; Richard S. Burns; *Barrow Neurological Institute, Phoenix, AZ*
- WP 049 **Investigating Time and Mass Effects in Solvent-Free MALDI Sample Preparation;** Scott D. Hanton; James R. Stets; *Air Products & Chemicals, Inc, Allentown, PA*
- WP 050 **The Effects of Sample Preparation for Nanoparticulate Matrices on Mass Resolution in LDI-TOFMS;** Kate Stumpo; David H. Russell; *Texas A&M University, College Station, TX*
- WP 051 **A Comparison of Matrix-Free LDI-MS using Nanostructured Targets and MALDI-MS for Small Molecule Analysis;** Sergei Dikler<sup>1</sup>; Catherine Stacey<sup>1</sup>; Veeral Hardev<sup>2</sup>; Hugh Daniels<sup>2</sup>; <sup>1</sup>*Bruker Daltonics, Inc., Billerica, MA;* <sup>2</sup>*Nanosys, Inc., Palo Alto, CA*

**IMAGING: INSTRUMENTATION  
052 - 080**

- WP 052 **Automated Aerosol Reagent Deposition on Tissue for *in situ* MALDI Imaging Analysis;** Hans-Rudolf Aerni<sup>1</sup>; Martin Schuereberg<sup>2</sup>; Richard M. Caprioli<sup>1</sup>; <sup>1</sup>*Vanderbilt University, Nashville, TN;* <sup>2</sup>*Bruker Daltonik GmbH, Bremen, Germany*
- WP 053 **Imaging Ion Mobility-Mass Spectrometry: Advantages, Challenges, and Future Prospects;** John A. Mclean; Whitney B. Ridenour; Richard M. Caprioli; *Vanderbilt University, Nashville, TN*
- WP 054 **Use of Acoustic Droplet Ejection to Prepare Biochemical Reactions on Tissue Sections for MALDI Imaging Mass Spectrometry;** Siobhan C. Pickett<sup>1</sup>; Jean Shieh<sup>1</sup>; Lisa Manier<sup>2</sup>; M. Reid Groseclose<sup>2</sup>; Michelle L. Reyzer<sup>2</sup>; Pierre Chaurand<sup>2</sup>; Richard M. Caprioli<sup>2</sup>; <sup>1</sup>*Labcyte Inc., Sunnyvale, CA;* <sup>2</sup>*Vanderbilt University, Nashville, TN*
- WP 055 **7.87 eV Laser Desorption Postionization Mass Spectrometry of Adsorbed and Covalently Bound**

POSTER SPACE

- Bisphenol A Diglycidyl Methacrylate;** Luke Hanley; Manshui Zhou; Chunping Wu; Artem Akhmetov; Praneeth D. Edirisinghe; James L. Drummond; *University of Illinois at Chicago, Chicago, IL*
- WP 056 **High-Fidelity Imaging Mass Spectrometry: Using the Resolving Power of MALDI-FTMS to Increase the Number of Ion Images at Each m/z;** Dale S. Cornett; Erin H. Seeley; M. Reid Groseclose; Richard M. Caprioli; *Vanderbilt University, Nashville, TN*
- WP 057 **Improved Spatial Resolution for Imaging MALDI MS through Homogeneous Matrix;** M. Reid Groseclose; Richard M. Caprioli; *Vanderbilt University Medical Center, Nashville, TN*
- WP 058 **Imaging MALDI Mass Spectrometry of Sphingolipids Using an Oscillating Capillary Nebulizer (OCN) Matrix Application System;** Yanfeng Chen; Ying Liu; Alfred H. Merrill, Jr; M. Cameron Sullards; *Georgia Institute of Technology, Atlanta, GA*
- WP 059 **Improving Peptides *de novo* Sequencing for MALDI-MSI by *in situ* N-terminal Derivation;** Julien Franck; Mohamed El-Ayed; Jonathan Stauber; Maxence Wisztorski; Olivia Jardin-Mathé; Isabelle Fournier; Michel Salzet; *FRE-CNRS 2933, University of Lille I, Villeneuve d'Ascq, France*
- WP 060 **Development of Microscope AP-MALDI-Q-FTICR-MS;** Katsutoshi Takahashi; *Nat'l Institute Advan. Indus. Sci Tech, Tokyo, Japan*
- WP 061 **Targeted Multiplex Mass Spectrometric Imaging (TAMSIM) of Tissue Sections;** Gwendoline Thiery<sup>1</sup>; Mikhail S. Shchepinov<sup>2</sup>; Edwin M. Southern<sup>3</sup>; Benoit Terris<sup>4</sup>; Ivo G. Gut<sup>1</sup>; <sup>1</sup>*CNG, Evry, France;* <sup>2</sup>*Shchepinov Consulting, Oxford, UK;* <sup>3</sup>*OGT, Yarnton, UK;* <sup>4</sup>*Hopital Cochin, Paris, France*
- WP 062 **Elucidation of Closely-Spaced Protonated Neuropeptides Directly Off Tissue by Enhanced Resolution MALDI ionization with Orbitrap Detection;** Maria C. Prieto Conaway<sup>13</sup>; Peter Verhaert<sup>2</sup>; Viatcheslav Kovtoun<sup>13</sup>; Huy Bui<sup>13</sup>; Nick Izgarian<sup>13</sup>; Thomas Moehring<sup>13</sup>; Kerstin Strupat<sup>13</sup>; <sup>1</sup>*Thermo Fisher Scientific, San Jose, CA;* <sup>2</sup>*Delft University of Technology, Biotechnology Dept, Delft, Netherlands;* <sup>3</sup>*Thermo Fisher Scientific, Bremen, Germany*
- WP 063 **Multiplexing MALDI MSI using Dynamic Pixel Imaging: MSI Analysis of Diazepam and its Two Major Metabolites in Rat Liver;** Donald L McKenzie<sup>1</sup>; Andrew James<sup>2</sup>; <sup>1</sup>*Pfizer Global Research & Development, Ann Arbor, MI;* <sup>2</sup>*Applied Biosystems/MDS SCIEX, Ontario, Canada*
- WP 064 **Chemical Imaging Mass Spectrometry by Coupling Laser Ablation Sampling with a Unique Atmospheric Pressure Glow Discharge Ionization Source;** Steven Ray; Francisco Andrade; Gary M. Hieftje; *Indiana University, Bloomington, IN*
- WP 065 **A New Sensor-Controlled Preparation Technique for MALDI Tissue Imaging;** Martin Schuereberg; Christine Luebbert; Rolf Mueller; Soeren Deininger; *Bruker Daltonik GmbH, Bremen, Germany*
- WP 066 **Use of Masks in MALDI-MSI: an Easy Tool for Increasing Spatial Resolution of Images by Decreasing Irradiated Area;** Maxence Wisztorski<sup>1</sup>; Nicolas Verplanck<sup>2</sup>; Vincent Thomy<sup>2</sup>; Jonathan Stauber<sup>1</sup>; Jean-Christophe Camart<sup>2</sup>; Michel Salzet<sup>1</sup>; Isabelle Fournier<sup>1</sup>; <sup>1</sup>*MALDI Imaging Team, FRE CNRS*

WEDNESDAY POSTERS

POSTER SPACE

- 2933, USTL, Villeneuve d'Ascq, France; <sup>2</sup>IEMN, UMR CNRS-8520, Cité Scientifique, Villeneuve d'Ascq, France
- WP 067 **Development of a Multi-Turn TOF-SIMS System with a Femtosecond Laser for Post-Ionization;** Kousuke Kumondai<sup>1</sup>; Ryotaro Todokoro<sup>1</sup>; Ryo Mibuka<sup>2</sup>; Shinji Kurihara<sup>2</sup>; Kiichiro Uchino<sup>2</sup>; Hisayoshi Yurimoto<sup>3</sup>; Morio Ishihara<sup>1</sup>; <sup>1</sup>Osaka University, Osaka, Japan; <sup>2</sup>Kyushu University, Fukuoka, Japan; <sup>3</sup>Hokkaido University, Hokkaido, Japan
- WP 068 **Nanoparticle-assisted Laser Desorption/Ionization for Ultra Resolution Imaging Mass Spectrometry;** Shu Taira<sup>1</sup>; Yuki Sugiura<sup>1</sup>; Shinji Moritake<sup>2</sup>; Shuichi Shimma<sup>3</sup>; Yuko Ichiyanagi<sup>2</sup>; Mitsutoshi Setou<sup>3</sup>; <sup>1</sup>Mitsubishi Kagaku Institute of Life Sciences, Machida city, Japan; <sup>2</sup>Yokohama National University, Yokohama, Japan; <sup>3</sup>National Institute of Physiological Sciences, Okazaki, Japan
- WP 069 **Direct Drug Imaging in Tissue Sections Utilizing MS/MS on a MALDI Quadrupole Orthogonal Acceleration TOF Mass Spectrometer;** Keith Compson<sup>1</sup>; Marten Snel<sup>1</sup>; Emmanuelle Claude<sup>1</sup>; György Marko-Varga<sup>2</sup>; Thomas Fehniger<sup>2</sup>; Kerstin Kenne<sup>2</sup>; Lena Gustavsson<sup>2</sup>; Siobhan Pickett<sup>3</sup>; Anna Nilsson<sup>4</sup>; Per E. Andren<sup>4</sup>; <sup>1</sup>Waters Corporation, Manchester, United Kingdom; <sup>2</sup>AstraZeneca, Lund, Sweden; <sup>3</sup>Labcyte, Sunnyvale, CA; <sup>4</sup>Lab. for Biol. & Med. MS, Uppsala University, Uppsala, Sweden
- WP 070 **Investigation of Analyte Extraction and Migration in Tissue Imaging by MALDI-MS;** Daniel P. Magparangalan<sup>1</sup>; Dodge L. Baluya<sup>1</sup>; Dieter M. Drexler<sup>2</sup>; Richard A. Yost<sup>1</sup>; <sup>1</sup>University of Florida, Gainesville, FL; <sup>2</sup>Bristol-Myers Squibb Company, Wallingford, CT
- WP 071 **LDI Imaging Mass Spectrometry via Molecular Interaction and Photo Labile Tags;** Junhai Yang<sup>1</sup>; Pierre Chaurand<sup>1</sup>; Jeremy Norris<sup>2</sup>; Ned Porter<sup>1</sup>; Richard Caprioli<sup>1</sup>; <sup>1</sup>Vanderbilt University, Nashville, TN; <sup>2</sup>Protein Discovery, Inc., Knoxville, TN
- WP 072 **MALDI MRM for Imaging of Targeted Proteins;** Derek Smith<sup>1</sup>; Angela Jackson<sup>1</sup>; Ashley Cabecinha<sup>1</sup>; Ryan Danell<sup>2</sup>; Christoph H. Borchers<sup>1</sup>; <sup>1</sup>University of Victoria-Genome BC Proteomics Centre, Victoria, Canada; <sup>2</sup>Danell Consulting, Greenville, NC
- WP 073 **Advanced Data Analysis for Hierarchical Clustering of Imaging Mass Spectrometry Datasets;** Liam McDonnell<sup>1</sup>; Alexander Broersen<sup>2</sup>; Leendert A. Klerk<sup>1</sup>; Robert van Lier<sup>2</sup>; Ron M A Heeren<sup>1</sup>; <sup>1</sup>FOM Institute-AMOLF, Amsterdam, Netherlands; <sup>2</sup>Centrum voor Wiskunde en Informatica, Amsterdam, Netherlands
- WP 074 **Metabolomic Profiling in Wheat Grains Using Automated Sample Preparation;** Alan Barnes<sup>1</sup>; Caroline J. Earnshaw<sup>2</sup>; Sally J. Atkinson<sup>2</sup>; Michael Burrell<sup>3</sup>; Malcolm R. Clench<sup>2</sup>; <sup>1</sup>Shimadzu Biotech, Manchester, United Kingdom; <sup>2</sup>Biomedical Research Centre, Sheffield Hallam Uni., Sheffield, UK; <sup>3</sup>Department of Plant and Animal Sciences, Sheffield University, UK
- WP 075 **Desorption Electrospray Ionization (DESI) Mass Spectrometry and Tandem Mass Spectrometry (MS/MS) of Lipids: Ionization, Adduct Formation and Fragmentation;** Nicholas E Manicke<sup>1</sup>; Justin M Wiseman<sup>2</sup>; Demian R Ifa<sup>1</sup>; Thomas A Blake<sup>1</sup>; R Graham Cooks<sup>1</sup>; <sup>1</sup>Purdue University, West Lafayette, IN; <sup>2</sup>Prosolia, Inc., Indianapolis, IN
- WP 076 **MALDI Tissue Imaging for Classification of Breast Cancer Sections;** Soeren-Oliver Deininger<sup>1</sup>; Martin

POSTER SPACE

- Schürenberg<sup>1</sup>; Christine Luebbert<sup>1</sup>; Arne Fuetterer<sup>1</sup>; Marc Gerhard<sup>1</sup>; Jane M. Kowalski<sup>1</sup>; Detlev Suckau<sup>1</sup>; Axel Walch<sup>2</sup>; <sup>1</sup>Bruker Daltonics, Bremen, Germany; <sup>2</sup>GSF-Institut für Pathologie, Neuherberg, Germany
- WP 077 **Direct Profiling and MS Imaging of Small Molecules (Carbohydrates/Acids/Phenolic Compounds) from Fruits by Colloidal Graphite-Assisted Laser Desorption/Ionization (GALDI) MS;** Hui Zhang; Sangwon Cha; Edward S. Yeung; Iowa State University, Ames, IA
- WP 078 **Independent Component Analysis as a Method for the Detection of Biochemical Trends in Tissue via Imaging Mass Spectrometry;** Raf Van de Plas; Bart De Moor; Etienne Waelkens; K.U.Leuven, Leuven, Belgium
- WP 079 **Ambient Molecular Imaging of Fungus and Animal Tissues by Electrospray-assisted Laser Desorption Ionization (ELDI) Mass Spectrometry;** Min-Zong Huang; Jentaie Shiae; National Sun Yat-Sen University, Kaohsiung, Taiwan
- WP 080 **Perspectives for Quantitative Tissue Imaging by Intermediate-Pressure MALDI/Linear Ion Trap Tandem Mass Spectrometry;** Richard A. Yost; Timothy J. Garrett; Daniel P. Magparangalan; Dodge L. Baluya; Rachelle R. Landgraf; Michael P. Napolitano; University of Florida, Gainesville, FL
- INSTRUMENTATION: QUADRUPOLES & ION TRAPS I  
081 - 096**
- WP 081 **Tandem Mass Spectrometry in a LTQ Orbitrap Mass Spectrometer using Multiple Fills;** Eduard Denisov; Oliver Lange; Alexander Makarov; Kerstin Strupat; Vlad Zabrouskov; Jens Griep-Raming; Stevan R. Horning; Thermo Fisher Scientific (Bremen) GmbH, Bremen, Germany
- WP 082 **Electrodynamic Ion-Funnel as a Trap: Performance and Initial Results;** Yehia Ibrahim; Mikhail Belov; Richard Smith; Pacific Northwest National Laboratory, Richland, WA
- WP 083 **Phase-Enhanced Selective Ion Ejection in the Orbitrap Mass Analyzer;** Richard H. Perry; Qizhi Hu; Robert J. Noll; Liang Gao; Isabella Zhang; R. Graham Cooks; Purdue University, West Lafayette, IN
- WP 084 **ECD in a Linear RF-Field without Collision Gas;** Hong Ji; Valery G. Voinov; Max L. Deinzer; Douglas F. Barofsky; Oregon State University, Corvallis, OR
- WP 085 **Sequence Characterization of Intact Proteins by Consecutive Ion/Ion Reactions of ETD and PTR;** Ralf Hartmer; Markus Lubeck; Carsten Baessmann; Andreas Brekenfeld; Bruker Daltonik, Bremen, Germany
- WP 086 **Axially-resonant Excitation Linear Ion Trap (AREX LIT) as a Dissociation Device;** Yuichiro Hashimoto<sup>1</sup>; Hideki Hasegawa<sup>1</sup>; Masuyuki Sugiyama<sup>1</sup>; Hiroyuki Satake<sup>1</sup>; Takashi Baba<sup>1</sup>; Izumi Waki<sup>1</sup>; Toshiyuki Yokosuka<sup>2</sup>; <sup>1</sup>Hitachi, Ltd, Central Research Lab, Kokubunji, Tokyo, Japan; <sup>2</sup>Hitachi, Ltd, Hitachi Research Lab, Hitachi, Ibaraki, Japan
- WP 087 **Development of High-Vacuum MALDI-DIT-MS and Improvement of Throughput with Novel Ion Introduction Technique;** Shinichi Iwamoto<sup>1</sup>; Kei Kodera<sup>1</sup>; Sadanori Sekiya<sup>1</sup>; Li Ding<sup>2</sup>; Ikuo Konishi<sup>2</sup>; Koichi Tanaka<sup>1</sup>; <sup>1</sup>Shimadzu Corporation, Kyoto, Japan; <sup>2</sup>Shimadzu Research Laboratory, Europe, Manchester, UK
- WP 088 **Characterization of a Minimally-Modified Ion Trap Mass Spectrometer for Aerosol Analysis;** Teresa L. Barone; William A. Harris; Peter T. A. Reilly; William

## WEDNESDAY POSTERS

### POSTER SPACE

- B. Whitten; *Oak Ridge National Laboratory, Knoxville, TN*
- WP 089 **Optimization of a MALDI Interface for the Digital Ion Trap using Simulations;** Mikhail Soudakov<sup>1</sup>; Dimitris Papanastasiou<sup>2</sup>; Ikuo Konishi<sup>1</sup>; <sup>1</sup>*Shimadzu Research Laboratory (Europe) Ltd., Manchester, United Kingdom*; <sup>2</sup>*KRATOS Analytical, Manchester, United Kingdom*
- WP 090 **Ionization Source for High Pressure Quadrupole Ion Trap Mass Spectrometry;** Andrew T. Fischer; William B. Whitten; *Oak Ridge National Laboratory, Oak Ridge, TN*
- WP 091 **Thermalization of MALDI ions in a High-Vacuum QIT-TOF Mass Spectrometer;** Dimitris Papanastasiou<sup>1</sup>; Omar Belgacem<sup>1</sup>; Michael Sudakov<sup>2</sup>; Emmanuel Raptakis<sup>1</sup>; <sup>1</sup>*Shimadzu Biotech, Kratos, Manchester, UK*; <sup>2</sup>*Shimadzu Research Laboratories, Manchester, UK*
- WP 092 **Automatic Crosstalk Compensation Techniques for Fourier Transform Mass Spectrometry with an Electric Ion Resonance Trap;** Ciro Sosero; Albrecht Glasmachers; Michel Aliman; *uni wuppertal, wuppertal, GERMANY*
- WP 093 **Polymer-based Rectilinear Ion Traps;** Miriam Fico; Meng Yu; Wei Xu; Zheng Ouyang; William J. Chappell; R. Graham Cooks; *Purdue University, West Lafayette, IN*
- WP 094 **Investigation of Buffer Gas Pressure Tailoring for Quadrupole Ion Trap Mass Spectrometry;** Dodge L. Baluya; Richard A. Yost; *University of Florida, Gainesville, FL*
- WP 095 **Mass Analysis of Ion Trap Array (ITA);** Xiao-Xu Li<sup>1</sup>; Gongyu Jiang<sup>1</sup>; Fuxin Xu<sup>1</sup>; Peng Yang<sup>1</sup>; Chan Luo<sup>1</sup>; An Hu<sup>1</sup>; Li Ding<sup>2</sup>; Yuan-yuan Wang<sup>1</sup>; Chuan-Fan Ding<sup>1</sup>; <sup>1</sup>*Fudan University, Shanghai, China*; <sup>2</sup>*Shimadzu Research Laboratory (Europe), Manchester, UK*
- WP 096 **Fragmentation of Ions in a Low Pressure Linear Ion Trap;** Bruce Collings; *MDS Sciex, Concord, Canada*

### ION MOBILITY: INSTRUMENTATION & METHODS 097 - 108

- WP 097 **A Combination of Ion-Ion Reaction and Ion Mobility Measurement for Top-Down Protein Analysis;** Qin Zhao<sup>1</sup>; Matthew Soyk<sup>1</sup>; Gregg Schieffer<sup>1</sup>; Ethan Badman<sup>2</sup>; R.S. Houk<sup>1</sup>; <sup>1</sup>*Iowa State University, Ames, IA*; <sup>2</sup>*Hoffmann-La Roche Inc., Nutley, NJ*
- WP 098 **Comparison of Different Ionization Sources in Drift Tube Ion Mobility Spectrometry;** Timo Mauriala<sup>1</sup>; Alexey Adamov<sup>1</sup>; Christian Pedersen<sup>1</sup>; Victor Teplov<sup>1</sup>; Raimo A Ketola<sup>1</sup>; Risto Kostianen<sup>1</sup>; Jyrki Viidanoja<sup>1</sup>; Alexey Sysoev<sup>2</sup>; Tapio Kotiaho<sup>1</sup>; <sup>1</sup>*University of Helsinki, Helsinki, Finland*; <sup>2</sup>*Moscow State Engineering Physics Institute, Moscow, Russia*
- WP 099 **Laser Desorption Ion Mobility Mass Spectrometry for Biological Agent Detection;** Juaneka M. Hayes<sup>1</sup>; Kermit K. Murray<sup>1</sup>; Michael V. Ugarov<sup>2</sup>; J. Albert Schultz<sup>2</sup>; <sup>1</sup>*Louisiana State University, Baton Rouge, LA*; <sup>2</sup>*Ionwerks, Inc., Houston, TX*
- WP 100 **Combining Crown Ether Shift Reagents and Combing IMS-IMS-MS;** Brian C. Bohrer; Samuel I. Merenbloom; David E. Clemmer; *Indiana University, Bloomington, IN*
- WP 101 **“Combing IMS-IMS”: A Multiplexed IMS-IMS Technique for Improved Efficiency;** Samuel Merenbloom; Brian Bohrer; David Clemmer; *Indiana University Bloomington, Bloomington, IN*

### POSTER SPACE

- WP 102 **Characterization of a Prototype Resistive Glass Atmospheric Pressure Ion Mobility Spectrometer with Corona Discharge and Nanoelectrospray Ion Sources;** Mark Kwasnik<sup>1</sup>; Katrin Fuhrer<sup>2</sup>; Marc Gonin<sup>2</sup>; Facundo M. Fernandez<sup>1</sup>; <sup>1</sup>*Georgia Institute of Technology, Atlanta, GA*; <sup>2</sup>*TOFWERK AG, Thun, Switzerland*
- WP 103 **Investigation of Structural Difference between Gas-Phase Peptides Generated by ESI and MALDI;** Lei Tao; Janel R. McLean; David H. Russell; *Texas A&M University, College Station, TX*
- WP 104 **Functionally Selective Ion Mobility Shift Reagents for Proteomic Applications;** Thomas J. Kerr; *Vanderbilt University, Nashville, TN*
- WP 105 **Miniature Planar Differential Mobility Spectrometry (DMS) Prefilters for Rapid High-Resolution Pre-separation of Peptides and Other Molecular Ions by Mass Spectrometry;** Stephen L. Coy; Evgeny V Krylov; Raanan A Miller; Erkinjon G Nazarov; *Sionex Corp., Wayland, MA*
- WP 106 **A Planar DMA Coupled to a MS for Tandem IMS-MS Separation at High Transmission, with IMS Resolution Approaching 100;** Juan Rus<sup>1</sup>; Francisco Estévez<sup>1</sup>; Juan Fernández de la Mora<sup>2</sup>; <sup>1</sup>*SEADM, Boecillo, SPAIN*; <sup>2</sup>*Yale University, New Haven, CT*
- WP 107 **Characterization of Ion Transmission Properties of Periodic Focusing and Uniform Field Drift Cells;** Kent J. Gillig; Jody May; Ryan Blase; David H. Russell; *Texas A&M University, College Station, TX*
- WP 108 **Rapid Screening of DNA Adducts Using Differential Mobility Spectrometry / Mass Spectrometry;** Terrence Black<sup>1</sup>; Stephen Coy<sup>2</sup>; Raanan Miller<sup>2</sup>; Erkinjon Nazarov<sup>2</sup>; Paul Vouros<sup>1</sup>; <sup>1</sup>*Northeastern University, Boston, MA*; <sup>2</sup>*Sionex Corp, Bedford, MA*

### ION MOLECULE REACTIONS 109 - 123

- WP 109 **Directly Observing the Gas Phase Reactions of Alkyl and Phenyl Radicals with Dioxygen using Distonic Anion;** Stephen J Blanksby; Benjamin B. Kirk; David G. Harman; *University of Wollongong, Wollongong, NSW, Australia*
- WP 110 **Gas Phase Ion-Molecule Reactions of Trimethyl Borate in the Quadrupole Ion Trap as a Method to Detect Protein Phosphorylation;** Yuriy Pyatkovskyy; Victor Ryzhov; *Northern Illinois University, DeKalb, IL*
- WP 111 **Direct Structural Assignment of Isomeric Alkyl Anilines via Collision-Induced Dissociation and Selective Ion/Molecule Reactions of Structurally-Diagnostic Ions (SDI);** Rodinei Augusti<sup>1</sup>; Mario Benassi<sup>2</sup>; Marcos N. Eberlin<sup>2</sup>; <sup>1</sup>*Federal University of Minas Gerais, Belo Horizonte/ MG, Brazil*; <sup>2</sup>*State University of Campinas, Campinas/ SP, Brazil*
- WP 112 **Methylation of Organic Bases at Atmospheric Pressure via Ion/Molecule Reactions;** Chunping Wu; Livia Schiavinato Eberlin; Hao Chen; R. Graham Cooks; *Purdue University, West Lafayette, IN*
- WP 113 **Mechanistic Elucidation of First Cycloaddition [2+1] of Norbornene with Terminal Alkynes Catalyzed by New Palladium Complexes using CAR Experiments;** Yves Gimbert<sup>1</sup>; Denis Lesage<sup>2</sup>; Laurent Giordano<sup>3</sup>; Jean-Claude Tabet<sup>2</sup>; <sup>1</sup>*LEDSS, Chimie Recherche UMR 5616, Grenoble, France*; <sup>2</sup>*UMR 7613 Université Pierre et Marie Curie Paris6, Paris, France*; <sup>3</sup>*ECM Faculté St-Jérôme, Marseille, France*

WEDNESDAY POSTERS

POSTER SPACE

- WP 114 **Ion Chemistry of Titan;** Samuel J Edwards; Colin G Freeman; Murray J McEwan; *University of Canterbury, Christchurch, New Zealand*
- WP 115 **Gas Phase Basicity of Peptides and Proteins at Atmospheric Pressure by ESSI-MS: Towards a Mechanism of Ionisation;** David Touboul; Matthias Jecklin; Renato Zenobi; *ETH Zurich, Zurich, Switzerland*
- WP 116 **Gas-phase Kinetics of the Formation of MOH<sup>+</sup> (NH<sub>3</sub>)<sub>n</sub> (n = 1- 5) Clusters with M = Ca, Sr, and Ba;** Andrea Dasic; Diethard K. Bohme; *York University, Department of Chemistry, CRMS, Toronto, Canada*
- WP 117 **Thermochemistry and Reactivity of Benzoylnitrene Anion;** Neloni R. Wijeratne; Paul G. Wenthold; *Purdue University, West Lafayette, IN*
- WP 118 **The Regioselectivity of Pyridine Deprotonation in the Gas Phase;** Bonnie Schafman-Janowiak; Paul G. Wenthold; *Purdue, Lafayette, IN*
- WP 119 **APTDI of Organometallic Complexes for Novel High Throughput Mass Spectrometer;** Wen-Ping Peng; Mike Goodwin; Hao Chen; R. Graham Cooks; *Purdue University, West Lafayette, IN*
- WP 120 **Size-Restricted Proton Transfer within Toluene-Methanol Cluster Ions;** Chitung Chiang; Marek Freindorf; Thomas R. Furlani; Robert L. DeLeon; James F. Garvey; *University at Buffalo, Buffalo, NY*
- WP 121 **Identification and Mass Spectrometric Characterization of Isomeric Isoflavone Aglycones by Ion Trap Time-of-Flight Mass Spectrometry;** Hui Li<sup>1</sup>; Leren Wan<sup>2</sup>; Yuki Hashi<sup>2</sup>; Shizhong Chen<sup>1</sup>; <sup>1</sup>*School of Pharmaceutical Sciences, Peking Univ., Beijing, China;* <sup>2</sup>*Shimadzu Beijing Office, Beijing, China*
- WP 122 **Core Ion Formation and Ion Evolution that Depend on Non-uniform field in Negative Corona Discharge;** Kanako Sekimoto; Mitsuo Takayama; *Yokohama City University, Yokohama, Japan*
- WP 123 **Deuterium Kinetic Isotope Effects in Microsolvated Gas-Phase E2 Reactions;** Veronica M. Bierbaum; Nicole Eyet; Stephanie M. Villano; Shuji Kato; *University of Colorado, Boulder, CO*

ION STRUCTURES / ENERGETICS II  
124 - 141

- WP 124 **Silver Cation Affinities of Monomeric Building Blocks of Polyethers and Polyphenols Determined by Guided Ion Beam Tandem Mass Spectrometry;** Yu Chen; Manoj Chinthaka Sinhapura-Dewage; Mary T. Rodgers; *Wayne State University, Detroit, MI*
- WP 125 **Probing Cation-π Interactions in Metal Ion-Amino Acid Complexes by Ion-Molecule Reactions;** Sara Koepke; Katrina Vaitkunas; Victor Ryzhov; *Northern Illinois University, DeKalb, IL*
- WP 126 **Double/Triple Hydrogen Transfer on Unimolecular Dissociation of Deuterium Labeled N,N'-Bis(5-phenylvaleryl)imidazolidine-2-thiones Using a Four Sector Tandem Mass Spectrometer;** Hiroshi Yamaoka<sup>1</sup>; Kyoko Okada<sup>1</sup>; Kei Shiono<sup>1</sup>; Kimio Isa<sup>2</sup>; Kouji Kuzuno<sup>2</sup>; Takashi Ohkawa<sup>2</sup>; Yoshio Takai<sup>3</sup>; Nico M.M. Nibbering<sup>4</sup>; <sup>1</sup>*Osaka Prefecture University, Sakai, Osaka, Japan;* <sup>2</sup>*University of Fukui, Fukui, Japan;* <sup>3</sup>*Osaka University, Osaka, Japan;* <sup>4</sup>*Vrije Universiteit, Amsterdam, the Netherlands*
- WP 127 **Investigating the Weak to Evaluate the Strong; Studying the Acidity of Carborane Acids through the Basicity of the Corresponding Anions;** Matthew M

POSTER SPACE

- Meyer; Steven R Kass; *University of Minnesota, Minneapolis, Minnesota*
- WP 128 **Fragmentation Processes of α-Substituted Carboxylate Anions;** Robert L. White; J. Stuart Grossert; *Dalhousie University, Halifax, Canada*
- WP 129 **Gas-Phase Reactions of PPI Dendrimers and Analogs Complexed with Divalent Zinc;** Jacob T. Kilgore; Jason D. Batchelor; Meredith Miller; William D. Price; *Marshall University, Huntington, WV*
- WP 130 **Sequence Effects on the Gas-Phase Acidities of the Cysteine-Polyalanine Peptides;** Jianhua Ren; John Tan; *University of the Pacific, Stockton, CA*
- WP 131 **Solvation of Electrosprayed DNA Base and Amino Acid Clusters in the Collision cell of a Hybride Q-FTMS;** Travis D. Fridgen<sup>1</sup>; Michael L. Easterling<sup>2</sup>; Christian B. Berg<sup>2</sup>; Negar Rajabi<sup>1</sup>; Christopher J. Thompson<sup>2</sup>; <sup>1</sup>*Memorial University of Newfoundland, St. John's, Canada;* <sup>2</sup>*Braker Daltonics, Billerica, MA*
- WP 132 **Characterizing the Influence of Amino Acid Residues on the Charge Inversion of Deprotonated Peptides via Gas-Phase Ion/Ion Reactions;** Joshua Emory; Scott McLuckey; *Purdue University, West Lafayette, IN*
- WP 133 **Tandem Mass Spectrometry and H/D Exchange of Protonated 1,1'-Bis (Diphenylphosphino)-Ferrocene Oxidation Impurity Generated in the Synthesis of a Pharmaceutical Calcium Receptor, Antagonist;** Lianming Wu<sup>1</sup>; Stacy O'Neill-Slawecki<sup>1</sup>; Heriberto Hernandez-Soto<sup>2</sup>; Qiaogong Su<sup>1</sup>; David Q. Liu<sup>1</sup>; Federick G. Vogt<sup>1</sup>; <sup>1</sup>*Chemical Development, GlaxoSmithKline, King of Prussia, PA;* <sup>2</sup>*Department of Chemistry, Purdue University, West Lafayette, IN*
- WP 134 **IRMPD Spectra of Proton-Bound Amino Acid Dimers;** Travis D. Fridgen<sup>1</sup>; Negar Rajabi<sup>1</sup>; Philippe Maitre<sup>2</sup>; Joel Lemiare<sup>2</sup>; <sup>1</sup>*Memorial University of Newfoundland, St. John's, Canada;* <sup>2</sup>*LCP Universite Paris Sud 11, Orsay, France*
- WP 135 **Determination of Fragment Ion Structure using Soft Landing Mass Spectrometry;** Amy E. Hilderbrand<sup>1</sup>; Karen E. Joyce<sup>1</sup>; John C. Poutsma<sup>2</sup>; Vicki H. Wysocki<sup>1</sup>; <sup>1</sup>*University of Arizona, Tucson, AZ;* <sup>2</sup>*The College of William and Mary, Williamsburg, VA*
- WP 136 **Origin of Deuterium Isotope Effects Observed during Competitive Binding ESI-MS of Cinchona Alkaloid-based Chiral Recognition Systems;** Aruna B. Wijeratne<sup>1</sup>; Petr Frycak<sup>1</sup>; Norbert M. Maier<sup>2</sup>; Wolfgang Linder<sup>2</sup>; Daniel W. Armstrong<sup>1</sup>; Kevin A. Schug<sup>1</sup>; <sup>1</sup>*UT-Arlington, Arlington, TX;* <sup>2</sup>*Dept. of Anal.Chem. & Food Chem., Univ. of Vienna, Vienna, Austria*
- WP 137 **Determination of the Proton Affinity of Nα-Acetyl-Lysine and the Lysine-Polyalanine Peptides Ac-KA<sub>n</sub> and Ac-A<sub>n</sub>K;** Robert Harper; Jianhua Ren; *University of the Pacific, Stockton, CA*
- WP 138 **Determination of the Hydrogen Bond Energy of Methanol Dimer;** Laura Combs; Paul G. Wenthold; *Purdue, Lafayette, IN*
- WP 139 **Tandem Mass Spectrometry of Synthetic Neoglycolipids: Isolation and Analysis of a Novel Product Ion;** Laura Thornsberry<sup>1</sup>; Richard Robbins<sup>1</sup>; Lisabeth L. Hoffman<sup>1</sup>; Jeremy J. Wolff<sup>1</sup>; Joseph Banoub<sup>2</sup>; I. Jonathan Amster<sup>1</sup>; <sup>1</sup>*University of Georgia, Athens, GA;* <sup>2</sup>*Department of Fisheries and Oceans, St. John's, Newfoundland, Canada*
- WP 141 **Gas Phase Fragmentation of Sudan and d<sub>6</sub>-Labelled Sudan Azo Dyes;** Leonardo Di Donna; Loredana

WEDNESDAY POSTERS

POSTER SPACE

Maiuolo; Fabio Mazzotti; Anna Napoli; Raffaele Salerno; Giovanni Sindona; *Dipartimento di Chimica, Università della Calabria, Rende, Italy*

NON-COVALENT COMPLEXES

142 - 166

- WP 142 **Viral Molecular Motors Visualized by Macromolecular Mass Spectrometry;** Kristina Lorenzen<sup>1</sup>; Charlotte Uetrecht<sup>1</sup>; Adam Olia<sup>2</sup>; Gino Cingolani<sup>2</sup>; Albert Heck<sup>1</sup>; <sup>1</sup>*University Utrecht, Biomolecular MS, Utrecht, Netherlands*; <sup>2</sup>*SUNY Upstate Medical University, Syracuse, New York*
- WP 143 **On the Composition of Gas-phase Ions from Protein Complexes: Contributions to Their Overall Mass;** Joanna Freeke; Brandon T. Ruotolo; Adam R. McKay; Carol V. Robinson; *University of Cambridge, Cambridge, UK*
- WP 144 **ESI-FTMS Investigation of the Non-Covalent Interactions between the HIV-1 Nucleocapsid Protein p7 (NC) and the U5:Aug Duplex ;** Sonnet Davis; Daniele Fabris; *University of Maryland Baltimore County, Baltimore, MD*
- WP 145 **A Fluorescence Probe of Conformational Dynamics of Non-Covalent Complexes in Gas Phase;** Xiangguo Shi; Denis Duft; Joel H. Parks; *Rowland Institute at Harvard, Cambridge, MA*
- WP 146 **Investigating the Stability of Various Non-Covalent Macrocyclic Complexes by Energy-Variable Collision-induced Dissociation in a Linear Ion Trap Mass Spectrometer;** Emily Jellen<sup>1</sup>; D. Michelle Benoist<sup>1</sup>; Benjamin Sims<sup>1</sup>; Victor Ryzhov<sup>2</sup>; <sup>1</sup>*Western Carolina University, Cullowhee, NC*; <sup>2</sup>*Northern Illinois University, DeKalb, IL*
- WP 147 **Influence of Zwitterions on Salt Bridge Stabilization of Single Stranded DNA/Peptide Noncovalent Complexes;** Sandra Alves<sup>1</sup>; Karine Pionnier<sup>1</sup>; Anna Warnet<sup>1</sup>; Amina Woods<sup>2</sup>; Jean-claude Tabet<sup>1</sup>; <sup>1</sup>*University P. and M. Curie, Paris Cedex 05, France*; <sup>2</sup>*NIDA IRP, NIH, Baltimore, MD*
- WP 148 **Influence of Surface Composition on the Dissociation of Non-Covalent Protein Complexes by SID;** Christopher M. Jones; Richard L. Beardsley; Asiri S. Galhena; Eman M. Basha; Elizabeth Vierling; Vicki H. Wysocki; *University of Arizona, Tucson, AZ*
- WP 149 **ESI-induced Shifts in Metal-Peptide Solution Equilibria;** Haritha Mattapalli; Christopher J. Veale; Colin S. Burns; Allison S. Danell; *East Carolina University, Greenville, NC*
- WP 150 **Phase-Sensitive Detection of Non-Covalent Complexes Using Time Modulated Ligand Delivery;** Marites J. Ayson; James S. Brennan; Joseph S. Schoeniger; *Sandia National Laboratories, Livermore, CA*
- WP 151 **The Specificity of Bacterial Pilus Assembly: Monitoring Subunit-Subunit Interactions using Non-covalent Electrospray Ionisation Mass Spectrometry;** Rebecca J Rose<sup>1</sup>; Han Remaut<sup>2</sup>; Denis Verger<sup>2</sup>; Tina Daviter<sup>2</sup>; Gabriel Waksman<sup>2</sup>; Sheena E Radford<sup>1</sup>; Alison E Ashcroft<sup>1</sup>; <sup>1</sup>*University of Leeds, Leeds, United Kingdom*; <sup>2</sup>*Birkbeck College, London, United Kingdom*
- WP 152 **Study of Non-covalent Complexes between Human Kinases and Clinical Inhibitors by NanoESI-MS;** Matthias C. Jecklin<sup>1</sup>; David Touboul<sup>1</sup>; Paul Ramage<sup>2</sup>; Rishi Jain<sup>3</sup>; John Tallarico<sup>3</sup>; Renato Zenobi<sup>1</sup>; <sup>1</sup>*ETH Zurich, Zurich, Switzerland*; <sup>2</sup>*Novartis Institutes for Biomedical Research, PSU, Basel, Switzerland*;

POSTER SPACE

<sup>3</sup>*Novartis Institutes for Biomedical Research, GDC, Cambridge, MA*

- WP 153 **Screening a Small Dynamic Combinatorial Library for Novel Ribonuclease A Ligands using ESI-FTICR-MS;** Michelle M. Sweeney<sup>1</sup>; Steven A. Benner<sup>2</sup>; John R. Eyler<sup>1</sup>; <sup>1</sup>*University of Florida, Gainesville, FL*; <sup>2</sup>*Foundation for Applied Molecular Evolution, Gainesville, FL*
- WP 154 **A Study of the Assembly and Disassembly Pathways of Non-covalent Homo-oligomer Complexes using Nano-ESI-Mass Spectrometry;** Elisabetta Boeri Erba<sup>1</sup>; Emmanuel Levy<sup>2</sup>; Helena Hernandez<sup>1</sup>; Laura Lane<sup>1</sup>; Carol V Robinson<sup>1</sup>; <sup>1</sup>*University of Cambridge, Department of Chemistry, Cambridge, United Kingdom*; <sup>2</sup>*MRC Laboratory of Molecular Biology, Cambridge, United Kingdom*
- WP 155 **Optimization of In-Line Gel Filtration Conditions for Non-Denaturing Mass Spectrometry;** Greg M. Waitt; Jon D. Williams; *GlaxoSmithKline, RTP, NC*
- WP 156 **Platination of Superoxide Dismutase with Cisplatin: Identifying Protein Platination Sites using Fourier Transform Ion Cyclotron Resonance Mass Spectrometry;** Stefan K Weidt; C Logan Mackay; Pat R R Langridge-Smith; Peter J Sadler; *University of Edinburgh, Edinburgh, United Kingdom*
- WP 157 **Towards Understanding the Effects of Chaotropic Agents on Homo-oligomeric Protein Complexes;** Laura A Lane; Elisabetta Boeri Erba; Helena Hernández; Carol V Robinson; *University of Cambridge, Cambridge, United Kingdom*
- WP 158 **Automated Online Real-Time Nano-MS Reaction Monitoring and its Application to Non-covalent Protein Complex Dynamics and Kinetics;** Alexander James Painter; Justin LP Benesch; Carol V Robinson; *Cambridge University, Cambridge, United Kingdom*
- WP 159 **Online Mass Spectrometric Investigation of Chiral Amplification of Amino Acid Sublimates;** Marcela Nefliu<sup>1</sup>; Richard H. Perry<sup>1</sup>; Chunping Wu<sup>1</sup>; Sean Bird<sup>2</sup>; David E. Clemmer<sup>2</sup>; R. Graham Cooks<sup>1</sup>; <sup>1</sup>*Purdue Univ., West Lafayette, IN*; <sup>2</sup>*Indiana Univ., Bloomington, IN*
- WP 160 **Sulfation, its Role and Mechanism in Protein-protein Interaction;** Amina S. Woods; Shelley N. Jackson; *NIDA IRP, NIH, Baltimore, MD*
- WP 161 **Techniques for Improved Analysis of Noncovalent Protein Complexes on the QSTAR<sup>®</sup>174 Elite Quadrupole Time-of-flight System;** Douglas A. Simmons; *MDS Sciex, Concord, Canada*
- WP 162 **Determination of Non-covalent Interactions between Antisense Oligonucleotides and  $\beta$ -cyclodextrin using Electrospray Ionization Mass Spectrometry (ESI-MS);** James A McKee; Catherine Bentzley; *University of the Sciences in Philadelphia, Philadelphia, PA*
- WP 163 **Mapping Binding Sites of Nucleic Acid Ligands Targeting Unique Structural Features of the HIV-1 Polypurine Tract by Tandem Mass Spectrometry;** Kevin B. Turner<sup>1</sup>; Robert Brinson<sup>2</sup>; Hye Young Yi-Brunozzi<sup>3</sup>; Jason W. Rausch<sup>3</sup>; John P. Marino<sup>2</sup>; Stuart F. J. Le Grice<sup>3</sup>; Daniele Fabris<sup>1</sup>; <sup>1</sup>*University of Maryland Baltimore County, Baltimore, MD*; <sup>2</sup>*University of Maryland Biotechnology Institute, Rockville, MD*; <sup>3</sup>*NCI, National Institutes of Health, Frederick, MD*
- WP 164 **Investigation of Non-Covalent DNA/Drug Complex by FT/ICR;** Ying Xu<sup>1</sup>; Afonso Carlos<sup>1</sup>; Françoise Fournier<sup>1</sup>; Ren Wen<sup>2</sup>; Jean-claude Tabet<sup>1</sup>; <sup>1</sup>*University P.*

WEDNESDAY POSTERS

POSTER SPACE

- and M. Curie, Paris Cedex 05, France; <sup>2</sup>Fudan University, Shanghai, China
- WP 165 **Quaternary Structure of Multiprotein Complexes Defined by ES-MS. Not All Complexes are Created Equal;** Jiangxiao Sun; Nian Sun; Elena Kitova; John Klassen; *University of Alberta, Edmonton, Canada*
- WP 166 **DNA Stabilization by Noncovalent Polynuclear Platinum Phosphate Clamps;** John B. Mangrum; Nicholas P. Farrell; *Virginia Commonwealth University, Richmond, VA*

LC/MS  
167 - 181

- WP 167 **Development and Application of 2D-LC-MS/MS in Clinical Diagnostics;** Mary Morr; Milan Patel; Andrew D Wagner; Russell P Grant; *Esoterix/Labcop, Inc., Calabasas Hills, CA*
- WP 168 **Experiences with the Quantitative Determination of Steroids by LC-MS/MS;** Martijn Hilhorst; Nico van der merbel; Gert Hendriks; Eric van der Horst; *PRA International -Early Development Services, Assen, Netherlands*
- WP 169 **Determination of Finasteride in Human Plasma by Liquid Chromatography with Mass-Spectrometric Detection;** Xiaohong Chen<sup>1</sup>; Erin R. Gardner<sup>2</sup>; Douglas K. Price<sup>1</sup>; William D. Figg<sup>1</sup>; *<sup>1</sup>National Cancer Institute, NIH, Bethesda, MD; <sup>2</sup>SAIC-Frederick, Inc., NCI-Frederick, Frederick, MD*
- WP 170 **Site Specific Quantification of Deamidation in Monoclonal Antibody by Peptide Mapping and Mass Spectrometry;** Luke Bergerud; Michael Byrne; Thomas Spitznagel; Zhuchun Wu; *Human Genome Sciences, Inc., Germantown, MD*
- WP 171 **Rapid Resolution of Pravastatin and Its Isomers using Optimal Mobile Phase Composition with Traditional Reverse Phase Columns;** Evgueni Fedorov; John Chapdelaine; Michel Coutu; Laurentiu Ciochina; Jean-Francois Larocque; Michael Mancini; *Warnex Bioanalytical Services, Inc., Laval, Canada*
- WP 172 **Optimization to Eliminate the Interference of Isomers for Measuring 1-O-β Acyl Glucuronide without Extensive Chromatographic Separation;** J. Billy Akinsanya; Yongjun Xue; Steve Unger; Donglu Zhang; *Bristol-Myers Squibb, Lawrenceville, NJ*
- WP 173 **The Impact of a Biomarker Strategy and LC/MS/MS Technology on the Advancement of a Drug Discovery Program;** Kristina K Gueneva-boucheva; *Pfizer Inc., Ann Arbor, MI*
- WP 174 **Determination of Isosorbide Dinitrate and Metabolites in Human Plasma Using Negative Ion ESI-LC/MS/MS;** James Creegan; Tianyi Zhang; Bruce Hidy; Rand Jenkins; *PPD, Richmond, VA*
- WP 175 **Evaluation of Celecoxib on the 3-sulfate-17-β-Estradiol / 17-sulfate-17-β-Estradiol Ratio in Urine and Plasma by Liquid Chromatography-Tandem Mass Spectrometry;** Austin Turner; *University of Florida, Gainesville, FL*
- WP 176 **A Quantitative LC/MS/MS Method for the Determination of Intermediates in the Cholesterol Biosynthetic Pathway;** Erick K Kindt; *Pfizer, Ann Arbor, MI*
- WP 177 **Simultaneous Analysis of 19 Intracellular Metabolites using Liquid Chromatographic-Electrospray Ionization- Tandem Mass Spectrometric Techniques;** Jungju Seo<sup>1</sup>; Myung Hee Nam<sup>1</sup>; Won Sik Lee<sup>2</sup>; *<sup>1</sup>Korea*

POSTER SPACE

- Basic Science Institute, Seoul, South Korea; <sup>2</sup>CJ Corp, Seoul, South Korea*
- WP 178 **Determination of PT-630 in Rat Plasma by LC/MS/MS;** Hongkun Liang<sup>1</sup>; Crystal Nguyen<sup>1</sup>; Yongdong Zhu<sup>1</sup>; Jamie Zhao<sup>1</sup>; Yuan-Shek Chen<sup>1</sup>; Benjamin Chien<sup>1</sup>; Margaret J. Uprichard<sup>2</sup>; John McCartney<sup>2</sup>; *<sup>1</sup>Quest Pharmaceutical Service, Newark, DE; <sup>2</sup>Point Therapeutics, Inc., Boston, MA*
- WP 179 **Investigating the Chromatographic Resolution of AZD and its Metabolites: Comparison of HPLC, UPLC and Hot Water Chromatography using Mass Spectrometry;** Steve Hill; *AstraZeneca, Alderley Edge, United Kingdom*
- WP 180 **Use of the Echo Peak Technique to Compensate for Matrix Effects in the LC-MS/MS Analysis of Beta-Lactam Antibiotics;** Katerina Mastovska; Alan R. Lightfield; *USDA-ARS-ERRC, Wyndmoor, PA*
- WP 181 **A Rapid Evaporation-Free Method for Simultaneous Determination of Raloxifene 4'- and 6- Glucuronides in Human EDTA Plasma by LC-MS/MS;** Aimin Tan<sup>1</sup>; Jun Li<sup>1</sup>; Saleh Hussain<sup>1</sup>; Francois Vallee<sup>2</sup>; *<sup>1</sup>Anapharm Inc. (Richmond Hill), Toronto, Canada; <sup>2</sup>Anapharm Inc. (Quebec), Quebec, Canada*

LC/MS SAMPLE PREPARATION  
182 - 192

- WP 182 **Automating the Preparation of Standard and Quality Control Samples in LC/MS/MS Bioanalysis with Reliability and Flexibility to Support Drug Discovery;** Baomin Xin; Minjuan Wang; Timothy Olah; *Bristol-Myers Squibb, Pennington, NJ*
- WP 183 **Sample Treatment Strategy and Optimization for Air Sensitive Transition Metal Complex using Atmospheric Pressure Chemical Ionization Tandem Mass Spectrometry;** Jong Hee Song; Myung-Ahn Ok; Jong-Sok Hahn; *SK Corporation R&D Center, Daejeon, Korea*
- WP 184 **The Use of LCMS in Pseudo-mass Guided Preparative Chromatography Purification;** Fernando Valle<sup>2</sup>; Mary D. Evenson<sup>1</sup>; Carlette Furr<sup>2</sup>; Lori K. Lawler<sup>2</sup>; Beth A. Lorschach<sup>2</sup>; *<sup>1</sup>Kelly Scientific, Indianapolis, IN; <sup>2</sup>Dow AgroSciences LLC., Indianapolis, IN*
- WP 185 **Quantitative Analysis of Rat Spinal Cord by Acoustic Homogenization and Liquid Chromatography/Electrospray Tandem Mass Spectrometry;** Roger Pham; Philip Wong; Bernd Bruenner; Christopher James; *Amgen, Inc., Thousand Oaks, CA*
- WP 186 **Rapid and Sensitive Gel-Free Approach to Dissect Affinity Purified Protein Complexes by NanoLC-MSMS;** Magno Junqueira; Andrej Shevchenko; *Max Planck Institute of Molecular and Cell Biology, Dresden, Germany*
- WP 187 **Improving the MS Detection of Malachite Green in Fish Products using Automated On-Line SPE Coupled to LC/Ion Trap MS;** Fredrick D. Foster<sup>1</sup>; Carlos Gil<sup>1</sup>; Norbert Helle<sup>2</sup>; Martina Bohlje<sup>2</sup>; Juergen Wendt<sup>3</sup>; *<sup>1</sup>GERSTEL GmbH & Co.KG, Mülheim, Germany; <sup>2</sup>TeLA GmbH Bremerhaven, Bremerhaven, Germany; <sup>3</sup>Agilent Technologies Sales and Services GmbH, Waldbronn, Germany*
- WP 188 **Degradation Characterization of Antibody Constant Regions;** Tammy Tuley; *Eli Lilly, Indianapolis, IN*
- WP 189 **Development and Validation of a pH 9.0 HPLC-Tandem Mass Spectrometric Method for the**

## WEDNESDAY POSTERS

### POSTER SPACE

- Quantitation of Compound-X in Human Plasma;** Amy LaPaglia<sup>1</sup>; John J Chaber<sup>2</sup>; Hong Li<sup>1</sup>; Amy Mize<sup>1</sup>; <sup>1</sup>*ABC Laboratories, Inc., Columbia, MO;* <sup>2</sup>*Indevus Pharmaceuticals, Inc, Lexington, MA*
- WP 190 **A Novel Method for Concentration Enrichment using an Autosampler;** Dahai Dong; Ron Kong; Manuel Cajina; Gamini Chandrasena; *Lundbeck Research USA, Paramus, NJ*
- WP 191 **Can Dispersive Solid Phase Extraction with On-line Solid Phase Extraction be used for Preparing Samples for LCMSMS Analysis;** Stephen J. Lock<sup>1</sup>; Nick Byrd<sup>2</sup>; Nadine Anderson<sup>1</sup>; Daniel Leigh<sup>1</sup>; <sup>1</sup>*Applied Biosystems, Warrington, United Kingdom;* <sup>2</sup>*Campden & Chorleywood Food Research Association, Chiping Campden, UK*
- WP 192 **Optimization of Mass Spectrometry Compatible Surfactants for Shotgun Proteomics;** Emily Chen<sup>1</sup>; Daniel Cociorva<sup>1</sup>; Jeremy L. Norris<sup>2</sup>; John R. III Yates<sup>1</sup>; <sup>1</sup>*The Scripps Research Institute, La Jolla, CA;* <sup>2</sup>*Protein Discovery, Inc., Knoxville, TN*

### MICROSCALE SEPARATIONS

193 - 204

- WP 193 **Simplifying Capillary Electrophoresis-Mass Spectrometry Operation: Eliminating Capillary Derivatization by Employing Self-Coating Background Electrolytes;** Selynda Garza; Mehdi Moini; *University of Texas at Austin, Austin, TX*
- WP 194 **Free Flow Isthaphoresis of Amino Acids in a Miniaturized Device with Electrospray Ionisation Mass Spectrometry;** Victoria N. Stone; Sara J. Baldock; Laura A. Croasdel; Leonard A. Dillon; Peter R. Fielden; Nick J. Goddard; C.L. Paul Thomas; Bernard J. Treves Brown; *The University of Manchester, Manchester, United Kingdom*
- WP 195 **ROMP-based Monolithic Capillary Columns as ESI-Interface for Fast and Sensitive LC-MS Analysis;** Christina Gatschelhofer<sup>1</sup>; Agnes Mautner<sup>1</sup>; Christoph Magnes<sup>1</sup>; Michael R. Buchmeiser<sup>2</sup>; Thomas R. Pieber<sup>3</sup>; Frank M. Sinner<sup>1</sup>; <sup>1</sup>*Joanneum Research, Graz, Austria;* <sup>2</sup>*Leibniz Institute for Surface Modification e. V., Leipzig, Germany;* <sup>3</sup>*Medical University Graz, Graz, Austria*
- WP 196 **Simultaneous Detection and Confirmation of 13 Tricyclic Antidepressant Agents by Capillary Electrophoresis-Tandem Mass Spectrometry;** Xiaoqing Li<sup>1</sup>; Cornelius E Uboh<sup>1</sup>; Lawrence R Soma<sup>1</sup>; Fuyu Guan<sup>1</sup>; Rongfang Xu<sup>1</sup>; Jeffrey A Rudy<sup>2</sup>; Youwen You<sup>1</sup>; Jinwen Chen<sup>1</sup>; <sup>1</sup>*University of Pennsylvania School of Vet Med, Kennett Square, PA;* <sup>2</sup>*West Chester University, West Chester, PA*
- WP 197 **Separation, Modification, and Identification of Neuropeptides by Off-line Capillary Electrophoresis MALDI FTMS;** Junhua Wang<sup>1</sup>; Ruibing Chen<sup>2</sup>; Stephanie S. DeKeyser<sup>2</sup>; Mingming Ma<sup>1</sup>; Lingjun Li<sup>1</sup>; <sup>1</sup>*School of Pharmacy, Univ. Wisconsin-Madison, Madison, WI;* <sup>2</sup>*Department of Chemistry, Univ. Wisconsin-Madison, Madison, WI*
- WP 198 **Integrating Mass Spectrometry with Surface Sampling Probes and Microfluidic Chips;** Mariam S ElNaggar; Richard A Mathies; Evan R Williams; *University of California, Berkeley, CA*
- WP 199 **Efficient Column-to-Column Coupling with Multiple Columns for Enhanced nLC-ESI-MS Separation;** Christopher Toher; Adam W. Perala; Carla J. Marshall-Waggett; Gary A. Valaskovic; *New Objective, Inc., Woburn, MA*

### POSTER SPACE

- WP 200 **Expression Profiling and Identification of Histone Modifications in Response to HDAC Inhibitors using Integrated Microfluidic Devices;** Anda Vintiloiu<sup>1</sup>; Christelle Pomiès<sup>1</sup>; Mihaela Ghitun<sup>1</sup>; Georges Gauthier<sup>2</sup>; Pierre Thibault<sup>1</sup>; <sup>1</sup>*Université de Montréal, Montreal, Canada;* <sup>2</sup>*Agilent Technologies, Waldbronn, Germany*
- WP 201 **CE-MS Analysis of Dilute Peptide Mixtures using On-Column, Pre-concentration Techniques Utilizing Solgel and Polymer-Based Monoliths;** Chun Jung Chen<sup>1</sup>; Selynda Garza<sup>1</sup>; Chitra K. Ratnayake<sup>2</sup>; Mehdi Moini<sup>1</sup>; <sup>1</sup>*University of Texas at Austin, Austin, TX;* <sup>2</sup>*Beckman Coulter, Inc., Fullerton, CA*
- WP 202 **Interfacing Low-Flow Separation Techniques to Mass Spectrometry using a Porous Tip;** Mehdi Moini; *University of Texas at Austin, Austin, TX*
- WP 203 **Fully Integrated and Microfabricated, Polymer-Based CZE-ESI Microchip for High Throughput MS Analysis;** Tiina M. Sikanen<sup>1</sup>; Santeri Tuomikoski<sup>2</sup>; Raimo A. Ketola<sup>1</sup>; Risto Kostiaainen<sup>1</sup>; Sami Franssila<sup>2</sup>; Tapio Kotiaho<sup>1</sup>; <sup>1</sup>*University of Helsinki, Helsinki, Finland;* <sup>2</sup>*Helsinki University of Technology, Helsinki, Finland*
- WP 204 **Phosphoproteomics on a Microfluidic-Mass Spectrometry Analysis Platform;** Abdulilah A Dawoud; Jenny M Armenta; Iuliana M Lazar; *Virginia Bioinformatics Institute at Virginia Tech, Blacksburg, VA*

### ENVIRONMENTAL ANALYSIS: METHODS

205 - 227

- WP 205 **GC-Microchip APCI-MS and GC-Microchip APPI-MS Methods for the Analysis of PCBs;** Laura Luosujärvi<sup>1</sup>; Mika-Matti Karikko<sup>1</sup>; Markus Haapala<sup>1</sup>; Ville Saarela<sup>2</sup>; Sami Franssila<sup>2</sup>; Raimo Ketola<sup>1</sup>; Risto Kostiaainen<sup>1</sup>; Tapio Kotiaho<sup>1</sup>; <sup>1</sup>*University of Helsinki, Helsinki, Finland;* <sup>2</sup>*Helsinki University of Technology, Espoo, Finland*
- WP 206 **Development of a Multi-Residue Analytical Method for the Determination of Multiple-Class Pharmaceuticals by Advanced LC- Tandem Mass Spectrometry (Qq-LIT);** Meritxell Gros; *IIQAB-CSIC, Barcelona, Spain*
- WP 207 **The Use of GCxGC MS for Biomarker Identification in Vertebrate and Invertebrate Species Exposed to Various Environmental Stressors;** Kimberly J. Ralston-Hooper<sup>1</sup>; Stephanie Baker<sup>1</sup>; Amber Hopf<sup>2</sup>; Jiri Adamec<sup>2</sup>; Xiang Zhang<sup>2</sup>; Maria Sepulveda<sup>1</sup>; <sup>1</sup>*Purdue University, West Lafayette, IN;* <sup>2</sup>*Bindley BioScience Center, West Lafayette, IN*
- WP 208 **A Multi-Residue Method for the Analysis of Insecticides Collected on Cotton Surface Wipes;** Matthew S. Clifton; Daniel M. Stout II; *US Environmental Protection Agency, Research Triangle Park, NC*
- WP 209 **Analysis of Matrix Effects for LDMS Quantification of Fullerenes in Rock Extracts;** Fiona Plows<sup>1</sup>; Matthew Hammond<sup>2</sup>; <sup>1</sup>*Bio-Rad Laboratories, Inc., Fremont, CA;* <sup>2</sup>*Stanford University, Stanford, CA*
- WP 210 **Method Optimization for Quantitation of Decabromodiphenyl Ethers in Sediments by Liquid Chromatography/Atmospheric Pressure Photoionization Tandem Mass Spectrometry;** Wang-hsien Ding; *National Central University, Chung-Li, Taiwan*
- WP 211 **Optimization of GCxGC/TOFMS with Automated Direct Sample Introduction for Analysis of 17**



WEDNESDAY POSTERS

POSTER SPACE

- WP 212 **Dioxins/Furans and Related Compounds;** Eunha Hoh; Katerina Mastovska; Steven J. Lehotay; *USDA, ARS, ERRC, Wyndmoor, PA*
- WP 213 **Polychlorinated Biphenyl Ethers (PCDE) and Chlorinated Biphenyls (hydroxy-PCBs) are Interferences in Determination of Polychlorinated Dibenzofuran Concentrations using EPA Methods;** Yvachesav N. Fishman; Gregory D. Martin; Lester L. Lamparski; Michael Wilken; *The Dow Chemical Company, Midland, MI*
- WP 214 **Direct & Rapid Measurement of Organic hazardous Additives in Resin by Ion Attachment Mass Spectrometry with Fragment-free Ionization;** Harumi Maruyama; Megumi Nakamura; Yasuyuki Taneda; Yoshiro Shiokawa; *Canon ANELVA Technix Corp, Fuchu-shi, Tokyo, Japan*
- WP 215 **Determination of Polybrominated Diphenyl Ethers in Maternal Serum and Cord Blood Samples using One-Step Accelerated Solvent Extraction and GC/EI-MSMS;** Cariton Kubwabo; Brian Stewart; *Health Canada, Ottawa, ON, Canada*
- WP 216 **New Methods for the Speciation of Plutonium under Environmental Conditions;** Razvan Aurel Dr. Buda; *Institut für Kernchemie, University Mainz, Mainz, Germany*
- WP 217 **Determining Proton-Transfer Reaction Rate Constants for Volatile Organic Compounds using the Protonated Acetone Reagent;** Jeremy A. Felton; Karen S. Wendling; Gary L. Glish; *The University of North Carolina at Chapel Hill, Chapel Hill, NC*
- WP 218 **A Novel Rapid Automated Screening Analysis using Solid Phase Microextraction and a Novel Ionization Source;** Scott Harrison<sup>1</sup>; Elizabeth Crawford<sup>2</sup>; <sup>1</sup>*Leap Technologies, Carrboro, NC*; <sup>2</sup>*IonSense, Saugus, MA*
- WP 219 **Nanoelectrospray Ionization High-Field Asymmetric Waveform Ion mobility Spectrometry with Q-TOF Mass Spectrometry for Identification of Nitrosamines in Water;** Yuan-yuan Zhao<sup>1</sup>; Xin Liu<sup>2</sup>; Jianjun Li<sup>2</sup>; Xing-Fang Li<sup>1</sup>; <sup>1</sup>*University of Alberta, Edmonton, Canada*; <sup>2</sup>*National Research Council of Canada, Ottawa, Canada*
- WP 220 **Applying an Effect-Directed Strategy for the Identification of Previously Unrecognized Toxic Chemicals in Sediments;** Sara J. Lupton<sup>1</sup>; Raymond C. Vaughn<sup>2</sup>; Diana S. Aga<sup>1</sup>; Troy D. Wood<sup>1</sup>; <sup>1</sup>*State University of New York at Buffalo, Buffalo, NY*; <sup>2</sup>*New York State Attorney General's Office, Buffalo, NY*
- WP 221 **Generating Reagent Ions using Pulsed Glow Discharge for Selected-Ion Chemical Ionization in a Quadrupole Ion Trap;** Karen S. Wendling; Gary L. Glish; *The University of North Carolina at Chapel Hill, Chapel Hill, NC*
- WP 222 **Comprehensive Studies on Bulk Laser Ablation Combined with Sector Field High-Resolution ICP-MS;** Jerzy Mierzwa; *University of Central Florida, Orlando, FL*
- WP 223 **Solvent Effects during Characterization of Naphthenic Acid Mixtures using Nanospray Fourier Transform Ion Cyclotron Resonance Mass Spectrometry;** Mark P. Barrow<sup>1</sup>; Kerry M. Peru<sup>2</sup>; John V. Headley<sup>2</sup>; Peter J. Derrick<sup>1</sup>; <sup>1</sup>*University of Warwick, Coventry, United Kingdom*; <sup>2</sup>*Environment Canada, Saskatoon, Canada*

POSTER SPACE

- WP 224 **Fast Analysis of Ordnance-Related Compounds and Agricultural Chemicals in Water with Desorption Electrospray Ionization (DESI);** Christopher C. Mulligan; Robert J. Noll; R. Graham Cooks; *Purdue University, West Lafayette, IN*
- WP 225
- WP 226 **Using Automated GC/MS Deconvolution to Find Trace Targets in Complex Matrices;** Chin-kai Meng; Phillip L. Wylie; Mike Szelewski; *Agilent Technologies, Wilmington, DE*
- WP 227 **Hand-portable Mass Spectrometer Characterized for Analysis of Aqueous Trace Level Contaminants;** Robert J. Noll<sup>1</sup>; Adam D. Keil<sup>1</sup>; Heriberto Hernandez<sup>1</sup>; Christian Janfelt<sup>2</sup>; R. Graham Cooks<sup>1</sup>; <sup>1</sup>*Purdue University, West Lafayette, IN*; <sup>2</sup>*Copenhagen University, Copenhagen, Denmark*

FORENSICS

228 - 245

- WP 228 **Quantitative Analysis of Fourteen Benzodiazepines Listed by the Society of Forensic Toxicology using Liquid Chromatography – Mass Spectrometry;** Ekaterina Torchilin; Marta Kozak; *Thermo Fisher Scientific, San Jose, CA*
- WP 229 **A Rapid and Efficient MS Method for the Analysis of HMX, RDX, and TNT using Laser Diode Thermal Desorption (LDTD)-MS/MS;** Pierre Picard<sup>1</sup>; H el ene Gagnon<sup>2</sup>; Louis-Simon Lussier<sup>2</sup>; Patrice Tremblay<sup>1</sup>; <sup>1</sup>*Phytronix Technologies, Quebec, Canada*; <sup>2</sup>*DRDC Valcartier, Quebec, Canada*
- WP 230 **Direct-Injection Mass Spectrometric Method for the Identification of Fentanyl and <sup>2</sup>H<sub>5</sub>-Fentanyl in Urine;** Cody J. Peer<sup>1</sup>; Islam R. Younis<sup>1</sup>; Daa M. Shakleya<sup>2</sup>; James C. Kraner<sup>3</sup>; Patrick S. Callery<sup>1</sup>; <sup>1</sup>*West Virginia University, Morgantown, WV*; <sup>2</sup>*NIDA, Baltimore, MD*; <sup>3</sup>*Office of the Chief Medical Examiner, Charleston, WV*
- WP 231 **Detection of Human Remains Compounds Emanating from Clandestine Burial sites by High Surface Area Solid Phase Microextraction Sampling with GC/MS;** Laura Conner<sup>1</sup>; Robbie Wheeler<sup>3</sup>; Michael Stevens<sup>3</sup>; Nishan Dulgerian<sup>4</sup>; Rex Stockham<sup>4</sup>; Brian Eckenrode<sup>1</sup>; <sup>1</sup>*Federal Bureau of Investigation, CFSRU, Quantico, VA*; <sup>2</sup>*Oak Ridge Institute for Science and Education, Oak Ridge, TN*; <sup>3</sup>*Uniformed Services University of the Health Scienc, Bethesda, MD*; <sup>4</sup>*Federal Bureau of Investigation, ERTU, Quantico, VA*
- WP 232 **Accurate Mass and Isotopic Pattern Based Routine Drug Screening in Horse Urine using Liquid Chromatography/Time-of-flight Mass Spectrometry;** Matthias Pelzing<sup>1</sup>; Geoff Beresford<sup>2</sup>; Rob Howitt<sup>1</sup>; Ian Sanders<sup>3</sup>; <sup>1</sup>*Bruker Biosciences Pty Ltd, Brunswick, Australia*; <sup>2</sup>*New Zealand Racing Laboratory Services, Auckland, New Zealand*; <sup>3</sup>*Bruker Daltonik GmbH, Bremen, Germany*
- WP 233 **Characterization of Explosive Compounds Using an Ion Mobility Spectrometer with High-Field Asymmetric Waveform Ion Mobility Spectrometry/Mass Spectrometry;** Jared J. Boock; Alex Wu; Richard A. Yost; *University of Florida, Gainesville, FL*
- WP 234 **Quantitation of Ink-Jet Printed Explosives Standards using Gas Chromatography Negative Ion Chemical Ionization Mass Spectrometry (GC/NCI-MS);** Marcela C Najarro; *National Institute of Standards and Technology, Gaithersburg, MD*

WEDNESDAY POSTERS

POSTER SPACE

- WP 235 **Concept for Facilitating Rapid Analyst-mediated Interpretation of Qualitative Chromatographic-mass spectral Data: An Alternative to Manual Examination of Extracted Ion Chromatograms;** Chad R. Borges; Arizona State University, Tempe, AZ
- WP 236 **Electrospray-Ionization Mass Spectrometry for Elucidation of Variation in Human Short Tandem Repeats;** Thomas A. Hall<sup>1</sup>; Kristin A. Sannes-Lowery<sup>1</sup>; Amy S. Schink<sup>1</sup>; Theodore D. Anderson<sup>2</sup>; Steven Hofstadler<sup>1</sup>; <sup>1</sup>Ibis Biosciences, Carlsbad, CA; <sup>2</sup>Armed Forces DNA Identification Laboratory, Rockville, MD
- WP 237 **Simultaneous Identification of Benzodiazepines Using Liquid Chromatography Electrospray Ionization Mass Spectrometry;** Yuriy Uvaydov; U.S. Drug Enforcement Administration, New York, NY
- WP 238 **THC and THC-Acid in Saliva Utilizing FAIMS-HSRM-Hyperbaric LC with Quantum Access for Rapid Quantitation of Low Level Intoxication;** Joyce Ho<sup>1</sup>; Angela Springfield<sup>1</sup>; Jamie Humphries<sup>2</sup>; Lawrence Lee<sup>2</sup>; <sup>1</sup>Tarrant County Medical Examiners Office, Fort Worth, TX; <sup>2</sup>Thermo Fisher, Fort Worth, TX
- WP 239 **Characterization of Host's Proteins and Lipids in Experimentally Fed *Amblyomma americanum* Ticks using Mass Spectrometry;** Samanthi I Wickramasekara<sup>1</sup>; Jonas Bunikis<sup>2</sup>; Amy Coyle<sup>1</sup>; Yimin Hua<sup>1</sup>; Alan Barbour<sup>2</sup>; Vicki Wysocki<sup>1</sup>; <sup>1</sup>University of Arizona, Tucson, AZ; <sup>2</sup>University of California Irvine, Irvine, CA
- WP 240 **The Analysis of Cocaine-N-Oxide and Other Cocaine Metabolites in Hair by LC/MS to Discriminate between Cocaine Ingestion and Environmental Exposure;** Brandi Clelland Vann<sup>1</sup>; Madeline Montgomery<sup>2</sup>; Mark Miller<sup>3</sup>; <sup>1</sup>FBI Laboratory, Visiting Scientist Program, Quantico, VA; <sup>2</sup>FBI Laboratory, Chemistry Unit, Quantico, VA; <sup>3</sup>FBI Laboratory, CFSRU, Quantico, VA
- WP 241 **LC-MS/MS Strategies for Detection of Counterfeit Drugs;** Robert Ellis; Takeo Sakuma; Applied Biosystems/MDS SCIEX, Concord, Canada
- WP 242 **From Automotive Paints to Pens: Analysis of Pigments by Laser Desorption Mass Spectrometry;** John Allison; Sylwia Stachura; Kaitlin Papson; The College of New Jersey, Ewing, NJ
- WP 243 **Microwave-assisted Derivatization Combined with Gas Chromatography-Mass Spectrometry for Determination of Amphetamines in Urine;** Li-Wen Chung; Shen-Han Hong; Geng-Jhih Liu; Zu-Guang Li; Maw-rong Lee; National Chung-Hsing University, Taichung, Taiwan
- WP 244 **Additive Enhancement for DART (Direct Analysis Real Time) Ionization of Analytes of Forensic Interest;** Jeffrey N. Leibowitz; Jay A. Clark; Lisa G. Schumacher; David A. McCollam; Marc A. LeBeau; FBI Laboratory, Quantico, VA
- WP 245 **LC-MS/MS Method for Confirmation of Recombinant Human EPO and Darbepoetin Alpha in Equine Plasma;** Fuyu Guan<sup>1</sup>; Cornelius Uboh<sup>2</sup>; Lawrence Soma<sup>1</sup>; Eric Birks<sup>1</sup>; Jinwen Chen<sup>1</sup>; Youwen You<sup>1</sup>; Fran Xu<sup>1</sup>; Gustave Mbuy<sup>3</sup>; <sup>1</sup>University of Pennsylvania, Kennett Square, PA; <sup>2</sup>PA Equine Toxicology & Research Center, West Chester, PA; <sup>3</sup>West Chester University, West Chester, PA

POSTER SPACE

HIGH THROUGHPUT ANALYSIS / ROBOTICS I  
246 - 257

- WP 246 **Cross Validation of High Throughput Technology (LDTD Model S960) with the Classic LC/MS/MS Analysis using Testosterone as Test Drug;** Serge Auger<sup>1</sup>; Pierre Picard<sup>2</sup>; Patrice Tremblay<sup>2</sup>; Patrice Arcand<sup>1</sup>; François Vallée<sup>1</sup>; <sup>1</sup>Anapharm Inc., Québec, Canada; <sup>2</sup>Phytronix, Québec, Québec, Canada
- WP 247 **Online Monitoring of Homogeneous Catalyst Mediated Substrate Conversion in Condensed Phase by Mass Spectrometry;** Cornelius T. Martha; Johannes G. Krabbe; Wilfried M. A. Niessen; Hubertus Irth; *Vrije Universiteit Amsterdam, Amsterdam, Netherlands*
- WP 248 **A Reliable Protocol for the Evaluation of LC-MS/MS Using Multiplexing Technology to Increase Sample Throughput in Regulated Environments (Part 2);** Valérie Vincent<sup>1</sup>; Yanick Bouchard<sup>2</sup>; Annik Bergeron<sup>1</sup>; Alex Rudofilove<sup>1</sup>; Troy Bradley<sup>1</sup>; Fabio Garofolo<sup>1</sup>; <sup>1</sup>Algorithme Pharma Inc., Laval (Montreal) - QC, Canada; <sup>2</sup>OptimiLab, Mirabel - QC, Canada
- WP 249 **A Systematic Online SPE-LC-MS/MS Method Development Strategy for the Analysis of Biological Samples;** Rob Castien; Martin Sibum; Emile Koster; Spark Holland Inc., Plainsboro, NJ
- WP 250 **A Centralized and Automated Sample Preparation Approach Utilizing the Hamilton MicroLab Star for Analysis via LC/MS/MS;** Emily Hudson<sup>1</sup>; <sup>1</sup>Pfizer, Ann Arbor, MI; <sup>2</sup>Pfizer Global Research and Development, Ann Arbor, MI
- WP 251 **Screening and Selection of Lead Compounds from Combinatorial Sets of Cyclic Peptide Libraries by MALDI-TOF and Ion-trap Mass Spectrometry;** Bernadette Cusack<sup>1</sup>; Peteris Romanovskis<sup>2</sup>; Joseph L. Johnson<sup>3</sup>; Leilani Sonoda<sup>1</sup>; Terrone Rosenberry<sup>1</sup>; <sup>1</sup>Mayo Clinic, Jacksonville, FL; <sup>2</sup>University of Louisville, Louisville, KY; <sup>3</sup>University of Minnesota, Duluth, MN
- WP 252
- WP 253 **An Automated High Throughput Approach to Permeability Screening using MDCK Monolayers and Rapid LC/MS/MS Analysis;** Christopher Borton<sup>1</sup>; Peadar Cremin<sup>2</sup>; Mark Warren<sup>2</sup>; Ying Bao<sup>2</sup>; Manping Ji<sup>2</sup>; Kerry Koller<sup>2</sup>; Quincey Wu<sup>2</sup>; Loren Olson<sup>1</sup>; <sup>1</sup>Applied Biosystems, Foster City, CA; <sup>2</sup>Xenoport Inc., Santa Clara, CA
- WP 254 **Optimized DMPK Sample Throughput and Quality: NanoMate and Automaton to Group Discovery Compounds based on Experimentally-Determined Analytical Characteristics;** Elizabeth A. Mahan; Neal Dube; Kristin Geddes; Suzie Yeh; King Rick; Carmen Fernandez-Metzler; Merck & Co., West Point, PA
- WP 255 **Automatic Derivatization Coupled with Gas Chromatography-Chemical Ionization Mass spectrometry for the Analysis of Fatty Acids in Food Samples;** Roger Gibert<sup>1</sup>; Nieves Sarrion<sup>1</sup>; José Antonio Muñoz<sup>2</sup>; Ariadna Galve<sup>2</sup>; Josep Maria Gibert<sup>3</sup>; <sup>1</sup>KONIK-TECH, S.A., Sant Cugat del Vallés, Spain; <sup>2</sup>IKAI, Institut d'Analítica Industrial, Sant Cugat del Vallés, Spain; <sup>3</sup>konik Instruments Inc., Miami, FL
- WP 256 **Rugged Protocol for the Evaluation of LC-MS/MS On-line Extraction Technology in Regulated Environments (Part 1);** Louis-Philippe Morin<sup>1</sup>; Yanick Bouchard<sup>2</sup>; Annik Bergeron<sup>1</sup>; Alex Rudofilove<sup>1</sup>; Troy Bradley<sup>1</sup>; Fabio Garofolo<sup>1</sup>; <sup>1</sup>Algorithme Pharma Inc., Laval (Montreal), QC, Canada; <sup>2</sup>OptimiLab, Mirabel, QC, Canada

WEDNESDAY POSTERS

POSTER SPACE

WP 257 **Mouse PK-Profiles Derived from Small Volume Plasma Samples with Automated Sample Preparation on Robot and LC-MS/MS Analysis;** Stefan Martinsson; Ulrika Määttä; Jan Neelissen; Eivor Eklund; AstraZeneca, Södertälje, Sweden

**BIOINFORMATICS: DATA PROCESSING  
258 - 287**

WP 258 **The Effects of Precursor and Fragment Ion Mass Accuracy on the Peptide False Positive Rates of Shotgun Proteomic Data;** Punit Shah; Lin Lin; James Atwood III; Ron Orlando; *Complex carbohydrate Research center, Athens, GA*

WP 259 **Precision Enhancement of MALDI-TOF Spectrometry Using High Resolution Peak Detection and Label-Free Alignment;** Maureen B. Tracy<sup>1</sup>; Haijian Chen<sup>1</sup>; Dennis Weaver<sup>1</sup>; Dariya I. Malyarenko<sup>1</sup>; Maciek Sasinowski<sup>2</sup>; Lisa H. Cazares<sup>3</sup>; Richard R. Drake<sup>3</sup>; O. John Semmes<sup>3</sup>; Eugene R. Tracy<sup>1</sup>; Dennis Manos<sup>1</sup>; William E. Cooke<sup>1</sup>; <sup>1</sup>*College of William and Mary, Williamsburg, VA*; <sup>2</sup>*INCOGEN, Inc., Williamsburg, VA*; <sup>3</sup>*Eastern Virginia Medical School, Norfolk, VA*

WP 260 **Keeping up with MALDI: Software Functions to Support MALDI QQQ MRM Quantitation;** Paul M Brennan; Sidonia Tita; Robert J Tromp; Pauline J Vollmerhaus; Feng Zhong; *Applied Biosystems / MDS Sciex, Concord, Ontario, Canada*

WP 261 **Improving Protein Identification Sensitivity by Combining MS and MS/MS Information for Shotgun Proteomics Using LTQ-Orbitrap High Mass Accuracy Data;** Bingwen Lu; Akira Motoyama; Cristian Ruse; John Venable; John R. Yates; *The Scripps Research Institute, La Jolla, CA*

WP 262 **Software for the Determination of Backbone Amide Deuterium Levels from H/D Exchange MS Data;** Bruce D. Pascal; Michael J. Chalmers; Scott A. Busby; Christopher C. Mader; Mark R. Southern; Nicholas F. Tsinoremas; Patrick R. Griffin; *The Scripps Research Institute, Jupiter, FL*

WP 263 **Beyond Mass Accuracy: The Neglected Role of Spectral Accuracy in Mass Spectrometry;** Yongdong Wang; Ming Gu; Don Kuehl; *Cerno Bioscience, Danbury, CT*

WP 264 **Fractional Averagine: Improved Modeling of Isotope Distributions for Peak Picking;** Bernhard Y. Renard<sup>1</sup>; Marc Kirchner<sup>1</sup>; Judith A. J. Steen<sup>2</sup>; Hanno Steen<sup>2</sup>; Fred A. Hamprecht<sup>1</sup>; <sup>1</sup>*University of Heidelberg, Heidelberg, Germany*; <sup>2</sup>*Children's Hospital, Boston, MA*

WP 265 **Improved Candidate Peptide Generation using a Precomputed Peptide Database;** Christopher Park; Aaron Klammer; William Stafford Noble; *University of Washington, Seattle, WA*

WP 266 **Wavelet-Based Two-Dimensional Peak Detection for Spectrometric Data;** Sabine Bader<sup>1</sup>; Wolfgang Urfer<sup>2</sup>; Jörg I. Baumbach<sup>1</sup>; <sup>1</sup>*ISAS - Institute for Analytical Sciences, Dortmund, Germany*; <sup>2</sup>*Department of Statistics, University Dortmund, Dortmund, Germany*

WP 267 **Comparison of Different Algorithms for Determining Peptide Abundance Ratios in Online LC Based Proteomics Experiments;** Kiriko Kamiya<sup>1</sup>; Jessica Bereszczak<sup>1</sup>; Michael May<sup>1</sup>; Francesco Brancia<sup>1</sup>; Simon Ashton<sup>2</sup>; John Warrander<sup>2</sup>; <sup>1</sup>*SRL, Manchester, United Kingdom*; <sup>2</sup>*Shimadzu ISS, Manchester, UK*

WP 268 **Signal Processing Optimization Over 10<sup>5</sup> m/z for MALDI-TOF Protein Spectra of Blood Serum;**

POSTER SPACE

Haijian Chen<sup>1</sup>; Dasha I. Malyarenko<sup>1</sup>; Maureen Tracy<sup>1</sup>; Christine L. Bunai<sup>1</sup>; Karl W. Kushcher<sup>1</sup>; Maciek Sasinowski<sup>3</sup>; Lisa H. Cazares<sup>2</sup>; Richard R. Drake<sup>2</sup>; Eugene R. Tracy<sup>1</sup>; Dennis M. Manos<sup>1</sup>; O. John Semmes<sup>2</sup>; William E. Cooke<sup>1</sup>; <sup>1</sup>*College of William and Mary, Williamsburg, VA*; <sup>2</sup>*Eastern Virginia Medical School, Norfolk, VA*; <sup>3</sup>*INCOGEN Inc., Williamsburg, VA*

WP 269 **A Semi-Supervised Machine Learning Technique for Peptide Identification from Shotgun Proteomics Datasets;** Lukas Käll<sup>1</sup>; Jesse Canterbury<sup>1</sup>; Jason Weston<sup>2</sup>; William Stafford Noble<sup>1</sup>; Michael MacCoss<sup>1</sup>; <sup>1</sup>*University of Washington, Seattle, WA*; <sup>2</sup>*NEC Research, Princeton, NJ*

WP 270 **Capturing More Information from Every Shotgun Proteomics Experiment by Carefully Considering Non-tryptic Peptides;** Haixu Tang; Pedro Alves; Randy J. Arnold; Quanhu Sheng; Predrag Radivojac; *Indiana University, Bloomington, IN*

WP 271 **Processing of LC-MS/MS Spectra – Database Search Enhancement;** Ilan Vidavsky; *Washington University, St Louis, MO*

WP 272 **Dynamically Trained Support Vector Regression of Chromatographic Retention Time Improves Peptide Identification;** Aaron Klammer; Xianhua Yi; Michael J. MacCoss; William Stafford Noble; *University of Washington, Seattle, WA*

WP 273 **Measuring Run-to-Run Variations in LC/MS and Undersampling in LC/MS-MS Experiments;** Xinjian Yan; Stephen E. Stein; *NIST, Gaithersburg, MD*

WP 274 **MS Peak Picking and Analysis Tools;** Tom Patterson; Hanno Steen; *Childrens Hospital, Boston, MA*

WP 275 **Novel Protein Identification and Quantification Algorithms for Multiplexed LC-MS Data to Enable Simultaneous Qualitative and Quantitative Proteomics;** Guo-zhong Li; Dan Golick; Barry Dyson; Jeffrey C. Silva; Johannes P. C. Vissers; Craig Dorschel; Marc V. Gorenstein; Scott J. Geromanos; *Waters Corporation, Milford, MA*

WP 276 **Singular Value Decomposition for MS/MS Feature Detection and Peptide Fragmentation Modeling;** Matthew J Sniatynski; Jason Rogalski; Juergen Kast; *The Biomedical Research Centre (UBC), Vancouver, Canada*

WP 277 **Investigation into the Qualitative and Quantitative Capabilities of a Database Search Algorithm for Alternate Scanning Multiplexed LC-MS Proteomics Data;** Johannes P.C. Vissers<sup>1</sup>; Guo-Zhong Li<sup>2</sup>; Catalin E. Doneanu<sup>2</sup>; Dan Golick<sup>2</sup>; Barry Dyson<sup>1</sup>; James I. Langridge<sup>1</sup>; Marc V. Gorenstein<sup>2</sup>; Jeffrey C. Silva<sup>2</sup>; Scott J. Geromanos<sup>2</sup>; <sup>1</sup>*Waters Corporation - MS Technologies Center, Manchester, United Kingdom*; <sup>2</sup>*Waters Corporation, Life Sciences R&D, Milford, MA*

WP 278 **Fast and Accurate Determination of Isotopic Clusters and Monoisotopic Masses of Polypeptides from Fourier Transform Mass Spectra;** Kunsoo Park<sup>1</sup>; Joo Young Yoon<sup>1</sup>; Sunho Lee<sup>1</sup>; Eunok Paek<sup>2</sup>; Heejin Park<sup>3</sup>; Sang-Won Lee<sup>4</sup>; <sup>1</sup>*Seoul National University, Seoul, South Korea*; <sup>2</sup>*University of Seoul, Seoul, South Korea*; <sup>3</sup>*Hanyang University, Seoul, South Korea*; <sup>4</sup>*Korea University, Seoul, South Korea*

WP 279 **DeconMSn– A Software Tool for Determination of Accurate Monoisotopic Masses of Parent Ions of Tandem Mass Spectra;** Anoop M. Mayampurath; Navdeep Jaitly; Samuel O. Purvine; Matthew E Monroe;

WEDNESDAY POSTERS

POSTER SPACE

- Kenneth J. Auberry; Joshua N. Adkins; Richard D. Smith; *Pacific Northwest National Laboratory, Richland, WA*
- WP 281 **A Statistical Model for Improving Probability Scores of Coupled MS<sup>2</sup> and MS<sup>3</sup> Mass Spectrometry Data;** Peter J. Ulintz<sup>1</sup>; Bernd Bodenmiller<sup>2</sup>; Ruedi Aebersold<sup>2</sup>; Philip C. Andrews<sup>1</sup>; Alexey I. Nesvizhskii<sup>1</sup>; <sup>1</sup>University of Michigan, Ann Arbor, MI; <sup>2</sup>ETH Zurich, Zurich, Switzerland
- WP 282 **A Sparse Regression Approach for Deconvolution, Deisotoping, and Quantification of Multicomponent Mass Spectra;** Marc Kirchner<sup>1</sup>; Bernhard Y Renard<sup>1</sup>; Linus Goerlitz<sup>1</sup>; Hanno Steen<sup>2</sup>; Judith AJ Steen<sup>2</sup>; Fred A Hamprecht<sup>1</sup>; <sup>1</sup>University of Heidelberg, Heidelberg, Germany; <sup>2</sup>Children's Hospital, Boston, MA
- WP 283 **Clustering Millions of Tandem Mass Spectra;** Ari Frank; Zhouxin Shen; Steve Briggs; Pavel Pevzner; *University of California, San Diego, CA*
- WP 284 **Periodic Noise Removal from MS Data – Algorithm and Applications;** Lyle Burton; Gordana Ivosev; Ron Bonner; *MDS Sciex, Concord, Canada*
- WP 285 **The Concept of "Eigenpeaks" in the Analysis and Storage of Proteomic Data;** Matthias Wilm; Sven Fraterman; Marc Gentzel; *EMBL, Heidelberg, Germany*
- WP 286 **Using Matlab to Automate Maxent Electropray Deconvolution, in an Investigation of the Role of Zinc-Deficient SOD in Lou Gehrig's Disease;** Linda K. DeNoyer<sup>1</sup>; Keith E. Nylind<sup>2</sup>; Joseph S. Beckman<sup>2</sup>; <sup>1</sup>Spectrum Square Associates, Ithaca, NY; <sup>2</sup>Linus Pauling Institute, Oregon State University, Corvallis, OR
- WP 287 **A New Algorithm for Determining a Charge State of a Peptide Tandem Mass Spectrum;** Seungjin Na<sup>1</sup>; Eunok Paek<sup>1</sup>; <sup>1</sup>Univ. of Seoul, Seoul, South Korea; <sup>2</sup>University of Seoul, Seoul, Korea

**CARBOHYDRATES & OLIGOSACCHARIDES III  
288 - 302**

- WP 288 **Synthesis and Mass Spectrometric Analysis of Fluorocarbon-Modified Fungal Glycosphingolipids;** Emma A. Arigi; Yunsen Li; Sherry A. Castle; Steven B. Lavery; *University of New Hampshire, Durham, NH*
- WP 289 **Tissue-Based Glycomics using Stable Isotope Labels and Normal Phase LC-Tandem MS;** Alicia Hitchcock; Catherine E. Costello; Joseph Zaia; *Boston University, Boston, MA*
- WP 290 **Improvement of Oligosaccharide and Glycopeptide Analyses by using an Ionic Liquid Matrix;** Yuko Fukuyama; Shuuichi Nakaya; Yuzo Yamazaki; Koichi Tanaka; *Shimadzu Corporation, Kyoto, Japan*
- WP 291 **Mass Spectrometric Analysis of Intact Lipooligosaccharide from *Campylobacter jejuni*: The First Direct Evidence for O-Acetylated Sialic Acid and O-Glycine;** Monika Dzieciatkowska<sup>1</sup>; Denis Brochu<sup>1</sup>; Hubert P. Endtz<sup>2</sup>; Nobuhiro Yuki<sup>3</sup>; R. Scott Houlston<sup>1</sup>; James C. Richards<sup>1</sup>; Michel Gilbert<sup>1</sup>; Jianjun Li<sup>1</sup>; <sup>1</sup>National Research Council Canada, Ottawa, Canada; <sup>2</sup>Erasmus University Medical Center Rotterdam, Rotterdam, The Netherlands; <sup>3</sup>Dokkyo Medical University School of Medicine, Tochigi, Japan
- WP 292 **The Utility of Multiplexed Stable Isotopic Labeling of Carbohydrates and Quantitative Analysis by Mass Spectrometry;** Michael Bowman; Joseph Zaia; *Boston University School of Medicine, Boston, MA*
- WP 293 **New Approaches for the Structural Characterization of a Complex, Sulfated Oligosaccharide Fraction**

POSTER SPACE

- Isolated from Human Salivary MUC5b;** Sarah Robinson<sup>1</sup>; Akraporn Prakobphol<sup>1</sup>; Rachel Martin<sup>2</sup>; H. Ewa Witkowska<sup>3</sup>; Steve C. Hall<sup>3</sup>; Susan J. Fisher<sup>1</sup>; <sup>1</sup>Department of Cell and Tissue Biology, UCSF, San Francisco, CA; <sup>2</sup>Shimadzu-Biotech, Manchester, UK; <sup>3</sup>BRC Mass Spectrometry Facility, UCSF, San Francisco, CA
- WP 294 **Structural & Quantitative Analysis of (Prebiotic) Human Milk and Dietetic Oligosaccharides in a Mixture by Negative Ion Mode ESI-LC-MS/MS;** Marko Mank<sup>1</sup>; Jianru Stahl-Zeng<sup>2</sup>; Günther Boehm<sup>3</sup>; Bernd Stahl<sup>1</sup>; <sup>1</sup>Numico Research Germany, 61381 Friedrichsdorf, Germany; <sup>2</sup>Applied Biosystems, Darmstadt, Germany; <sup>3</sup>Sophia Children's Hospital Erasmus University, Rotterdam, The Netherlands
- WP 295 **Characterization of Man-6-P in Lysosomal Enzymes by Tandem Mass Spectrometry;** May Joy Contado-Miller; Philip Savickas; *Shire Human Genetic Therapies, Cambridge, MA*
- WP 296 **Characterization of *in vivo* Intermediates of the Bacterial N-linked Protein Glycosylation by Affinity Chromatography and Mass Spectrometry;** Jacek Stupak<sup>1</sup>; Christopher Reid<sup>1</sup>; Mark M. Chen<sup>2</sup>; Barbara Imperiali<sup>2</sup>; Christine M. Szymanski<sup>1</sup>; Jianjun Li<sup>1</sup>; <sup>1</sup>National Research Council of Canada, Ottawa, Canada; <sup>2</sup>Massachusetts Institute of Technology, Cambridge, Massachusetts
- WP 297 **Methodology and Characterization of Non-Covalent Protein Bound Heparin Oligosaccharides by Mass Spectrometry;** Hicham Naimy; Nancy Leymarie; Joseph Zaia; *Boston University School of Medicine, Boston, MA*
- WP 298 **Glycomic Studies of Glycosaminoglycans from Rat Tissues by LC-MS and CE-LIF Analysis;** Xiaofeng Shi; Joseph Zaia; *Boston University School of Medicine, Boston, MA*
- WP 299 **Quantitative Isobaric Labeling for Isomeric Glycan Analysis;** Lei Cheng; James A. Atwood; Gerardo Alvarez-Manilla; William S. York; Ron Orlando; *University of Georgia, Athens, GA*
- WP 300 **Identification of Isobaric Carbohydrates using Two-Dimensional Ion Mobility Time-of-Flight Mass Spectrometry Techniques;** Ruwan T. Kurulugama; David E. Clemmer; *Indiana University, Bloomington, IN*
- WP 301 **A Novel LC/MS/MS/MS Method for the Determination of 1,5-Anhydroglucitol in Human Urine;** Joelle Onorato; Robert A. Langish; Petia Shipkova; Mark Sanders; Jae Kwag; Sanjoy Dutta; *Bristol-Myers Squibb, Princeton, NJ*
- WP 302 **High Performance Profiling and Quantitation of Oligosaccharides in Human Milk using Microfluidic Chips with High Mass Accuracy Mass Analyzer;** Milady R. Ninonuevo<sup>1</sup>; Patrick D. Perkins<sup>2</sup>; Jimi Francis<sup>3</sup>; Riccardo G. LoCascio<sup>1</sup>; David A. Mills<sup>1</sup>; Samara L. Freeman<sup>1</sup>; J. Bruce German<sup>1</sup>; Rudolf Grimm<sup>2</sup>; Carlito B. Lebrilla<sup>1</sup>; <sup>1</sup>University of California, Davis, CA; <sup>2</sup>Agilent Technologies, Santa Clara, CA; <sup>3</sup>University of Nevada, Reno, NV

**CLINICAL CHEMISTRY  
303 - 319**

- WP 303 **Blood Serum Profiling of Complex Glycans: A Potential Diagnostic/Prognostic Tool for Breast Cancer;** Zuzana Kyselova<sup>1</sup>; Yehia Mechref<sup>1</sup>; Pilsoo Kang<sup>1</sup>; John A. Goetzl<sup>1</sup>; Lacey E. Dobrolecki<sup>2</sup>; George Sledge<sup>3</sup>; Lauren Schnaper<sup>4</sup>; Robert J. Hickey<sup>2</sup>; Linda H.

WEDNESDAY POSTERS

POSTER SPACE

- Malkas<sup>3</sup>; Milos V. Novotny<sup>1</sup>; <sup>1</sup>National Center for Glycomics and Glycoproteomics, Bloomington, IN; <sup>2</sup>Department of Medicine, IU School of Medicine, Indianapolis, IN; <sup>3</sup>Indiana University Cancer Center, Indianapolis, IN; <sup>4</sup>Breast Cancer Center, Greater Baltimore MD Center, Baltimore, MD
- WP 304 **An Automated Assay for High Throughput Quantification of 17 $\alpha$ -OH-Progesterone in Human Serum;** Valdemir M. Carvalho<sup>1</sup>; Odete H. Nakamura<sup>1</sup>; José G.H. Vieira<sup>1</sup>; <sup>1</sup>Fleury S.A., São Paulo, Brazil; <sup>2</sup>Fleury Institute, São Paulo, Brazil
- WP 305 **Optimization of a Method for Quantitative Amino Acid Analysis of Physiological Samples by LC/MS/MS using iTRAQ™ Reagents;** Scott B. Daniels<sup>1</sup>; Bruno Casetta<sup>3</sup>; Subodh Nimkar<sup>2</sup>; Subhasish Purkayastha<sup>1</sup>; <sup>1</sup>Applied Biosystems MA, Framingham, MA; <sup>2</sup>Applied Biosystems CA, Foster City, CA; <sup>3</sup>Applied Biosystems Italy, Monza, Italy
- WP 306 **On-line SPE-LC-MS/MS Method for Free Thyronines in Serum;** Bingfang Yue<sup>2</sup>; Alan L. Rockwood<sup>1</sup>; Williams L. Roberts<sup>3</sup>; Mark M. Kushnir<sup>2</sup>; A. Wayne Meikle<sup>4</sup>; <sup>1</sup>ARUP Laboratories, Salt Lake City, UT; <sup>2</sup>ARUP R&D Institute, Salt Lake City, UT; <sup>3</sup>Department of Pathology, University of Utah, Salt Lake City, UT; <sup>4</sup>Departments of Medicine, University of Utah, Salt Lake City, UT
- WP 307 **Investigation of High Background Interference in an LC-ESI-MS/MS Assay of Salicylate;** Dale Schoener; Jim Lehman; Patrick Lin; *Alta Analytical Laboratory, El Dorado Hills, CA*
- WP 308 **Analysis of Leukotriene B4 in Human Atherosclerotic Plaque Extracts;** Xiaoyao (XY) Xiao; Gloria Lazar; Derek L. Chappell; Andrew Plump; Wesley K. Tanaka; *Merck, Rahway, NJ*
- WP 309 **Advanced Applications of LC-MS/MS in Clinical Diagnostics;** Milan Patel; Andrew D Wagner; Mary Morr; Russell P Grant; *Esoterix/Labcorp, Calabasas Hills, CA*
- WP 310 **MS Assays for the Multiplex Determination of Uroporphyrinogen Decarboxylase and Coproporphyrin Oxidase Activity in Human Blood;** Yuesong Wang; Frantisek Turecek; Michael H. Gelb; C. Ronald Scott; *University of Washington, Seattle, WA*
- WP 311 **Metabolic Profiling of Amino Acids in Urine using CE-ESI-TOF-MS;** Oleg Mayboroda<sup>2</sup>; Rico Derks<sup>2</sup>; Gabriela Zurek<sup>1</sup>; Matthias Pelzing<sup>3</sup>; Christian Neussess<sup>4</sup>; Andree Deelder<sup>2</sup>; <sup>1</sup>Bruker Daltonik GmbH, Bremen, Germany; <sup>2</sup>LUMC, Leiden, Netherlands; <sup>3</sup>Bruker Daltonics Australia, Melbourne, Australia; <sup>4</sup>HTW Aalen, Aalen, Germany
- WP 312 **Isotopically-Labeled Amino Acids Showing Non-Ideal Mass Spectrometric Response Factors;** Thomas F. Dorsey<sup>1</sup>; Timothy J. Eckersley<sup>1</sup>; Donald H. Chace<sup>2</sup>; Christopher A. Crafts<sup>1</sup>; <sup>1</sup>Cambridge Isotope Laboratories, Andover, MA; <sup>2</sup>Pediatrics Screening, Bridgeville, PA
- WP 313 **Plasmalogens, a New Class of Biomarkers for Ovarian Cancer Detection;** Lian Shan<sup>1</sup>; Lorelei Davis<sup>1</sup>; Stanley L. Hazen<sup>2</sup>; <sup>1</sup>Frantz BioMarkers, Mentor, OH; <sup>2</sup>Cleveland clinic Foundation, Cleveland, Ohio
- WP 314 **Detection and Quantification of Dehydroepiandrosterone in Human Serum by Liquid Chromatography-APCI-tandem Mass Spectrometry;** Amit K. Ghoshal; William F. Haddon; Richard E. Reitz;

POSTER SPACE

- Nigel J. Clarke; *Quest Diagnostics -Nichols Institute, San Juan Capistrano, CA*
- WP 315 **Proteolytic Peptides in Thalassemic Red Cells;** Duanganee Sanmun<sup>1</sup>; Jingyun Chia<sup>1</sup>; Thongperm Mongkoldee<sup>2</sup>; Saovaros Svasti<sup>2</sup>; Pranee Fucharoen<sup>2</sup>; Suthat Fucharoen<sup>2</sup>; Kai Tang<sup>1</sup>; <sup>1</sup>Nanyang Technological University, Singapore, Singapore; <sup>2</sup>Mahidol University, Nakhonpathom, Thailand
- WP 316 **Challenges in Sports Drug Testing – Mass Spectrometry of Emerging Drugs and Determination of Sample Manipulation with Proteases;** Mario Thevis; Joachim Maurer; Maxie Kohler; Wilhelm Schänzer; *German Sport University, Cologne, Germany*
- WP 317 **Prostate Cancer Detection Achieved by Profiling Human Blood Serum Glycome;** Mohammad M. Al Bataineh<sup>1</sup>; Zuzana Kyselova<sup>2</sup>; Yehia Mechref<sup>1</sup>; Lacey E. Dobrolecki<sup>3</sup>; Robert J. Hickey<sup>3</sup>; Christopher J. Sweeney<sup>3</sup>; Milos V. Novotny<sup>2</sup>; <sup>1</sup>METACyt Biochemical Analysis Center, Bloomington, IN; <sup>2</sup>National Center for Glycomics and Glycoproteomics, Blomington, IN; <sup>3</sup>Department of Medicine, IU School of Medicine, Indianapolis, IN
- WP 318 **Identification of Significantly Differentially Expressed Peptides in Pre-eclamptic Placental Tissue by MALDI-FT Mass Spectrometry;** Coskun Güzel<sup>1</sup>; Christianne J.M. de Groot<sup>2</sup>; Regine P.M. Steegers-Theunissen<sup>2</sup>; Eric A.P. Steegers<sup>2</sup>; Theo M. Luider<sup>1</sup>; <sup>1</sup>Dept. of Neurology, ErasmusMC, Rotterdam, Netherlands; <sup>2</sup>Dept of Obstetrics and Gynecology, Rotterdam, Netherlands; <sup>3</sup>Dept. of Obstetrics and Gynecology, the Hague, Netherlands; <sup>4</sup>Dept. of Epidemiology, Rotterdam, Netherlands
- WP 319 **Analysis of Blood Specimens for Acylcarnitines and Amino Acids using the TriVersa Nanomate and MS/MS;** Donald H. Chace; James DiPerna; *Pediatrics Analytical, Bridgeville, PA*
- |                                      |  |
|--------------------------------------|--|
| <b>DRUG METABOLISM: QUANTITATION</b> |  |
| <b>320 - 337</b>                     |  |
- WP 320 **Two-dimensional Solid Phase Extraction to Eliminate Extensive Matrix Effect in the LC-MS/MS Quantitation of DPC-A78445 and Metabolites in Human Urine;** Yinghe Li<sup>1</sup>; Tom Addison<sup>1</sup>; Mary Pelzer<sup>1</sup>; Kim Ricksecker<sup>1</sup>; Xiangyu Jiang<sup>1</sup>; Jianing Zeng<sup>2</sup>; Paul D. Crane<sup>3</sup>; <sup>1</sup>Covance Laboratories, Inc., Madison, WI; <sup>2</sup>Bristol-Myers Squibb, Princeton, NJ; <sup>3</sup>Bristol-Myers Medical Imaging, Inc., North Billerica, MA
- WP 321 **On-Line Extraction Recovery Determination in LC-MS/MS System;** Dahai Dong; Ron Kong; Manuel Cajina; Gamini Chandrasena; Martha Vallejo; *Lundbeck Research USA, Paramus, NJ*
- WP 322 **Development and Validation of an LC/ESI-MS-MS for Analysis of Aripiprazole in Human Plasma: Escaping Ion Suppression Dilemma;** Shen-Nan Lin; Lolita Lamm; David E. Moody; Rodger L. Foltz; *University of Utah, Salt Lake City, UT*
- WP 323 **Theoretical Considerations in the Quantitation of the Hydroxy acid and Lactone Forms of a Statin in Human Plasma by LC-MS/MS;** Changyu Quang; *PDM, PGRD of Pfizer Inc., Ann Arbor, MI*
- WP 324 **Simultaneous Determination of Five Metabolites of Nevirapine in Human Serum, using LC-MS/MS;** Kenneth Swart; G Fourie; DJ Brand; HSL Kruger; JW Pieterse; FCW Sutherland; MJ van der Merwe;

WEDNESDAY POSTERS

POSTER SPACE

- Farmovs-Parexel, Bloemfontein, Free State, South Africa*
- WP 325 **Simultaneous Determination of Reduced and Oxidized Glutathione in Rat Liver Microsomes by Liquid Chromatography-Electrospray Mass Spectrometry;** Limin He; Roche Palo Alto, Palo Alto, CA
- WP 326 **Challenges in Development and Validation of an UPLC-MS/MS Method for Quantitation of Desethylamodiaquine as a CYP 2C8 Marker Substrate Metabolite;** Chongwoo Yu; Meng Xu; Swapan K. Chowdhury; Schering-Plough Research Institute, Kenilworth, NJ
- WP 327 **Quantitation of Endogenous Plasma Thymidine using <sup>13</sup>C Labeled Thymidine as Surrogate Analyte;** Robert B Marquardt<sup>1</sup>; Min Meng<sup>1</sup>; Ryan Brough<sup>1</sup>; Patrick Bennett<sup>1</sup>; Bilin Chou<sup>2</sup>; Patrick Rudewicz<sup>2</sup>; <sup>1</sup>Tandem Labs, Salt Lake City, UT; <sup>2</sup>Genentech, Inc., South San Francisco, CA
- WP 328 **Quantitative Determination of Phlorizin in Human Plasma and Urine using LC/MS/MS;** Kevin W Jessing<sup>1</sup>; Joel Ehrenkranz<sup>2</sup>; <sup>1</sup>Tandem Labs, Salt Lake City, UT; <sup>2</sup>Dept. of Medicine, University of Colorado, Aurora, CO
- WP 329 **High Throughput Measurement of PGP Mediated Transport of Protease Inhibitors across PGP Inducible MDCK Monolayers by LC-MS/MS;** Peadar Cremin<sup>1</sup>; Mark Warren<sup>1</sup>; Ying Bao<sup>1</sup>; Manping Ji<sup>1</sup>; Kerry Koller<sup>1</sup>; Quincey Wu<sup>1</sup>; Loren Olson<sup>2</sup>; Christopher Borton<sup>2</sup>; <sup>1</sup>Xenoport, Santa Clara, CA; <sup>2</sup>Applied Biosystems Inc., Foster City, CA
- WP 330 **Use of Deuterium Oxide in the Metabolite Identification of MEM 1003; a Novel Dihydropyridine Calcium Channel Blocker;** Elizabeth D. Graham; Voon Ong; Memory Pharmaceuticals, Montvale, NJ
- WP 331 **Development and Validation of Liquid Chromatography/Tandem Mass Spectrometry Methods for the Quantitation of 1-methyl-4-phenyl Pyridinium (MPP+) in Brain Tissue;** Mei-Yi Zhang; Natasha Kagan; Amy Sung; Edward Kerns; Margaret M. Zalaska; Michael Monaghan; Wyeth Research, Princeton, NJ
- WP 332 **Quantitative Analysis of Procaterol in Human Plasma by ESI LC/MS/MS;** Ming-Hung Lin<sup>1</sup>; Yi-Fan Shieh<sup>1</sup>; Chin-Hsiung Wang<sup>1</sup>; Hui-Erh Chang<sup>1</sup>; I-Ching Kuan<sup>2</sup>; Cheng-Chin Chang<sup>1</sup>; <sup>1</sup>Protech Pharmservices Corporation, Taipei, Taiwan; <sup>2</sup>Tatung University, Taipei, Taiwan
- WP 333 **Overcoming Autosampler Carryover in a Validated LC/MS/MS Assay of Polar, Fluorinated GS-9137, its Metabolites, and Ritonavir in Human Plasma;** Steve Wintermute; Michelle Brosnan-Cook; John R. Kagel; Gilead Sciences, Durham, NC
- WP 334 **Determination of Amikacin in Human Serum using LC/MS/MS Method;** Moo-Young Kim<sup>1</sup>; Yansheng Liu<sup>1</sup>; Gene F. Ray<sup>1</sup>; Sarah M. Swenson<sup>1</sup>; Dari Dadgar<sup>1</sup>; Constance K. Mackinson<sup>2</sup>; Renu Gupta<sup>2</sup>; <sup>1</sup>AAI Pharma, Shawnee, KS; <sup>2</sup>Transave Inc., Monmouth Junction, NJ
- WP 335 **Determination of Keratin Binding of AN2690 by LC/MS/MS;** Wei Bu; Stephen J. Baker; Jake J. Plattner; Karin M. Hold; Anacor Pharmaceuticals, Palo Alto, CA
- WP 336 **Removal of Interferences by Induced Antibodies in Therapeutic Proteins Quantification by Liquid Chromatography/Mass Spectrometry (LC/MS);**

POSTER SPACE

- Mathieu Dubois<sup>1</sup>; Francois Becher<sup>1</sup>; Jean-Claude Tabet<sup>2</sup>; Eric Ezan<sup>1</sup>; <sup>1</sup>CEA-Service de Pharmacologie et d'Immunoanalyse, Gif sur Yvette, France; <sup>2</sup>LC SOB Université Pierre et Marie Curie, Paris, France
- WP 337 **Detection, Quantification and Confirmation of Phenylbutazone and Oxyphenbutazone in Equine Plasma by Liquid Chromatography-tandem Mass Spectrometry;** Youwen You<sup>1</sup>; Uboh Cornelius<sup>2</sup>; Lawrence Soma<sup>1</sup>; Fuyu Guan<sup>1</sup>; Xiaoqin Li<sup>1</sup>; Fran Xu<sup>1</sup>; Jeffrey Rudy<sup>2</sup>; <sup>1</sup>University of Pennsylvania, West Chester, PA; <sup>2</sup>PA Equine Toxicology and Research Center, West Chester, PA

DRUG METABOLISM: REACTIVE METABOLITES  
338 - 347

- WP 338 **Reconciling the Products of Reactive Metabolites of Xenobiotic Thiobenzamide in Liver Protein and Lipid Pools with Isotope Labeled Compound;** Todd Williams; Nadezhda A. Galeva; Keisuke Ikehata; Yakov M. Koen; Tao Ji; Robert P. Hanzlik; University of Kansas, Lawrence, KS
- WP 339 **Identification of Methylglyoxal Adducts Involved in the Onset and Treatment of Insulin Resistance;** Andrew RS Ross<sup>1</sup>; Richard J Hughes<sup>1</sup>; Douglas JH Olson<sup>1</sup>; Xuming Jia<sup>2</sup>; Lingyun Wu<sup>2</sup>; <sup>1</sup>National Research Council of Canada, Saskatoon, Canada; <sup>2</sup>University of Saskatchewan, Saskatoon, Canada
- WP 340 **A Novel Use of Principal Component Analysis for *in vitro* GSH Conjugate Screening of Drugs in Discovery;** Elliott Jones<sup>2</sup>; Jia Hao<sup>1</sup>; Nancy Chu<sup>1</sup>; Kwan Leung<sup>1</sup>; Nevena Mollova<sup>1</sup>; <sup>1</sup>CV Therapeutics, Inc., Palo Alto, CA; <sup>2</sup>Applied Biosystems, Foster City, CA
- WP 341 **Determination of Lovastatin and Beta-OH-Lovastatic Acid in Human Plasma by LC-MS/MS;** HB Theron; M Tesfu; KJ Swart; HSL Kruger; JW Pieterse; FCW Sutherland; M van der Merwe; Farmovs-Parexel, Bloemfontein, Free State, South Africa
- WP 342 **Liquid Chromatography Mass Spectrometry Quantification of a Thiol-Ester Pro-Drug;** Jerry Muhammad; Connie Zhao; Steven Dorow; Paul Wash; Joseph Payne; Robyn Rourick; Kalypsys, Inc., San Diego, CA
- WP 343 **Analysis of Trimethylsilyl Derivatives of Oxidative Estrogen Metabolites by Selected Ion Monitoring GC/MS;** Harrell E. Hurst; Manika V. Vadhanam; Ramesh C. Gupta; Univ. of Louisville Medical School, Louisville, KY
- WP 344 **Alkylation of DNA by Electrophilic Metabolites of 4-Ethyl-Phenol and 4-Propyl-Phenol from Prempro;** Long Yuan; Judy L. Bolton; Richard B. Van breemen; University of Illinois College of Pharmacy, Chicago, IL
- WP 345
- WP 346 **Characterisation of Metabolites Generated by Mutant Cytochromes P450 Enzymes using a 3D Ion Trap-Time of Flight Mass Spectrometer;** Jon de Vlieger<sup>1</sup>; J.G. Krabbe<sup>1</sup>; J.N.M. Commandeur<sup>1</sup>; N.P.E. Vermeulen<sup>1</sup>; W.M.A. Niessen<sup>1</sup>; Neil Loftus<sup>2</sup>; <sup>1</sup>Vrije Universiteit, Amsterdam, The Netherlands; <sup>2</sup>Shimadzu ISS, Manchester, United Kingdom
- WP 347 **Identification of Cytochrome P450 3A4 Modification Site Using Linear Ion Trap-Fourier Transform Mass Spectrometry;** Hideo Yukinaga<sup>1</sup>; Tomonori Takami<sup>2</sup>; Shohei Shioyama<sup>2</sup>; Zenzaburo Tozuka<sup>2</sup>; Hiroshi Masumoto<sup>1</sup>; Osamu Okazaki<sup>1</sup>; Ken-ichi Sudo<sup>1</sup>; <sup>1</sup>Daiichi Pharmaceutical, Tokyo, Japan; <sup>2</sup>JCL Bioassay Corporation, Nishiwaki, Japan

WEDNESDAY POSTERS

POSTER SPACE

**METABOLITES (ENDOGENOUS):  
NON-TARGETED ANALYSIS  
348 - 360**

- WP 348 **Metabolomic Profile of Human Cerebral Spinal Fluid Generated by LC-FT-ICR-MS;** Yeping Xiong; Liang Li; *Department of Chemistry, University of Alberta, Edmonton, Canada*
- WP 349 **Differential Metabolites Profiling of Plasma Utilizing Ultra High Resolution Mass Spectrometry;** TuKiet T. Lam<sup>1</sup>; Michael L. Easterling<sup>2</sup>; Dmitry Gumerov<sup>2</sup>; Walter McMurray<sup>1</sup>; Kathleen M. McCarty<sup>1</sup>; <sup>1</sup>*Yale University, New Haven, CT*; <sup>2</sup>*Bruker Daltonics Inc., Billerica, MA*
- WP 350 **Quantitative Metabolomics: Development of a Stable Isotopic Standard for Analysis of Complex Mixtures by LC-FTMS;** Jennifer M. Johnson<sup>1</sup>; Tianwei Yu<sup>2</sup>; Fredrick H. Strobel<sup>1</sup>; Dean P. Jones<sup>1</sup>; <sup>1</sup>*Emory University, Atlanta, GA*; <sup>2</sup>*Emory University School of Public Health, Atlanta, GA*
- WP 351
- WP 352 **Analysis of the Intraspecies Variation of Secondary Metabolite Production by *Myxococcus Xanthus* using ESI-TOF-MS and Principal Component Analysis (PCA);** Daniel Krug<sup>1</sup>; Gabriela Zurek<sup>2</sup>; Birgit Schneider<sup>2</sup>; Carsten Baessmann<sup>2</sup>; Rolf Müller<sup>1</sup>; <sup>1</sup>*Universität des Saarlandes, Saarbrücken, Germany*; <sup>2</sup>*Bruker Daltonik GmbH, Bremen, Germany*
- WP 353 **The Use of Direct Infusion-Based High Resolution FT-MS in Combination with Solid Phase Extraction and C13 Labeling for Metabolomic Analysis;** Patrick Giavalisco; Bing Luo; Jan Hummel; Lothar Willmitzer; *Max Planck Institute for Plant Physiology, Golm, Germany*
- WP 354 **Long Term Metabolomics Analysis Procedures: Identifying and Removing Sources of Instrument Variation;** Chris Lock; Stephen Tate; Bradley Schneider; Lyle Burton; Thomas Covey; *MDS Sciex, Concord, Canada*
- WP 355 **Evaluation of Electrospray/LTQ-Orbitrap Mass Spectrometry as a New Tool for Metabolite Profiling;** Geoffrey Madalinski<sup>1</sup>; Erwan Werner<sup>1</sup>; Denis Lesage<sup>3</sup>; Sandra Alves<sup>3</sup>; Jean Labarre<sup>2</sup>; Eric Ezan<sup>1</sup>; Jean-Claude Tabet<sup>2</sup>; Christophe Junot<sup>1</sup>; <sup>1</sup>*CEA - DSV/iBiTec-S/SPI/LEMM, Gif-sur-Yvette, France*; <sup>2</sup>*CEA - DSV/iBiTec-S/SBGM, Gif-sur-Yvette, France*; <sup>3</sup>*LS2FMB - UMR 7613-CNRS - Université Paris 6, Paris, France*
- WP 356 **LC/TOF MS Profiling of Secondary Metabolites of Arabidopsis O-methyltransferase Mutants using Multiplexed In-Source Collision Induced Dissociation;** Xiaoli Gao; Eli B. Eisman; A. Daniel Jones; *Michigan State University, East Lansing, MI*
- WP 357 **Liquid Chromatography Electrospray-ionization Time of Flight Mass-Spectrometry (LC/ESI/TOF/MS) Identifies a Thiazolidenedione (TZD) Responsive Urinary Metabolite Profile: Implications for Diabetic Complications;** Jaeman Byun<sup>1</sup>; David Weil<sup>2</sup>; Hongyu Zhang<sup>1</sup>; Jharna Saha<sup>1</sup>; MaryLee Schin<sup>1</sup>; Frank Brosius<sup>1</sup>; Subramaniam Pennathur<sup>1</sup>; <sup>1</sup>*University of Michigan, Ann Arbor, MI*; <sup>2</sup>*Agilent Technologies Inc., Schaumburg, IL*
- WP 358 **Detection of Bladder Cancer by Metabolomic Profiling of Urine using HPLC/MS and Statistical Data Analysis;** Haleem J. Issaq<sup>1</sup>; Ofer Nativ<sup>2</sup>; Timothy Waybright<sup>1</sup>; Brian Luke<sup>1</sup>; Timothy D. Veenstra<sup>1</sup>; Elias J. Issaq<sup>2</sup>; Alexander Kravstov<sup>2</sup>; Michael Mullerad<sup>2</sup>; <sup>1</sup>*SAIC-*

POSTER SPACE

*Frederick, Frederick, MD*; <sup>2</sup>*Bnai-Zion Medical Center, Haifa, Israel*

- WP 359 **Global Metabolite Profiling of Human Urine using LC-MS on an Ion-Trap Time of Flight Hybrid Mass Spectrometer;** Eleni Glka<sup>1</sup>; Georgios Theodoridis<sup>1</sup>; Ian Wilson<sup>1</sup>; Simon Ashton<sup>2</sup>; Neil Loftus<sup>2</sup>; <sup>1</sup>*Astra Zeneca, Alderley Park, UK*; <sup>2</sup>*Shimadzu ISS, Manchester, United Kingdom*
- WP 360 **Screening of LC-MS-Based Metabolic Profiling Data utilizing Statistical Modeling to Identify Candidate Biomarkers;** Christina M. Sorensen; Don S. Daly; Thomas O. Metz; Navdeep Jaitly; Stephen J. Callister; Matthew E. Monroe; Jennifer S. Zimmer; Ronald J. Moore; Richard D. Smith; *Pacific Northwest National Laboratory, Richland, WA*

**METABOLOMICS: METHODS & PROCEDURES  
361 - 378**

- WP 361 **An iTRAQ™ Reagent-Based Quantitative Analysis to Validate Different Extraction Strategies for Recovering Free Amino Acids in Human Plasma;** H-L Patty Sun<sup>1</sup>; Scott Daniels<sup>2</sup>; Paul Courchesne<sup>1</sup>; Jennifer Campbell<sup>1</sup>; Chenhui Zeng<sup>1</sup>; <sup>1</sup>*BG Medicine, Waltham, MA*; <sup>2</sup>*Applied Biosystems, Framingham, MA*
- WP 362 **Method Validation for Urine Global Metabolic Fingerprinting using UPLC-ToFMS;** Philippe A. Guy; Isabelle Tavazzi; Ziad Ramadan; Sunil Kochhar; *Nestlé Research Center, Lausanne, Switzerland*
- WP 363 **Multiple Isotopometric Labeling of the *Arabidopsis thaliana* Metabolome for Feature Assignment and Quantitation;** Adrian D. Hegeman; Christopher F. Schulte; Qui Cui; Ian A. Lewis; Clark J. Nelson; Edward L. Huttlin; Greg Barrett-Wilt; Amy C. Harms; Eldon L. Ulrich; John L. Markley; Michael R. Sussman; *University of Wisconsin, Madison, WI*
- WP 364 **Increase Metabolite Coverage in MS-Based Plant Metabolomics of Model Species with Biological Variations;** Baichen Zhang<sup>1</sup>; Ed Cahoon<sup>2</sup>; Henry Nguyen<sup>1</sup>; <sup>1</sup>*University of Missouri-Columbia, Columbia, MO*; <sup>2</sup>*Danforth Center, St Louis, MO*
- WP 365 **Metabolite Profiling of Red Pepper (*Capsicum annuum* L.) for Natural Product Screening Using LC-Time-of-Flight Mass Spectrometry;** Nam-In Baek<sup>1</sup>; Nabil Saad<sup>2</sup>; Tobias Kind<sup>2</sup>; Oliver Fiehn<sup>2</sup>; <sup>1</sup>*Kyung Hee University, Yongin-si, Korea*; <sup>2</sup>*UC Davis, Davis, CA*
- WP 366 **Determining Plant Metabolites by Collision Induced Dissociation (CID) and AP-MALDI;** Gregg M. Schieffer<sup>1</sup>; David C. Perdian<sup>1</sup>; Ethan R. Badman<sup>2</sup>; R. S. Houk<sup>1</sup>; <sup>1</sup>*Iowa State University, Ames, IA*; <sup>2</sup>*Hoffmann-La Roche, Inc., Nutley, NJ*
- WP 367 **Analysis of Intracellular PenG and Related Metabolites in *Penicillium Chrysogenum* Cell Extracts with LC-ESI-MS/MS;** Jan C. Dam Van; *Technical University Delft, Delft, Netherlands*
- WP 368 **Rapid Quantitation of Prostaglandins and Other Free Fatty Acid Metabolites in Low Volume Samples by LC-MS/MS;** Ines Unterwurzacher<sup>2</sup>; Wolfgang Stoeggel<sup>1</sup>; Katussevani Bernardo<sup>1</sup>; Verena Forcher<sup>1</sup>; Guenther Eibl<sup>1</sup>; Ingrid Osprian<sup>1</sup>; Guenther Bonn<sup>2</sup>; Armin Graber<sup>1</sup>; Steven L Ramsay<sup>1</sup>; <sup>1</sup>*BIOCRATES Life Sciences GmbH, Innsbruck, Austria*; <sup>2</sup>*Institute of Analytical Chemistry, Innsbruck, Austria*
- WP 369 **Identification of Components of Interest Found During Metabonomic Studies: The Utility of MS<sup>n</sup> Spectral Libraries;** Bethanne Warrack<sup>1,2</sup>; Emily Luk<sup>1,2</sup>;

WEDNESDAY POSTERS

POSTER SPACE

- WP 370 **Identification of Drug Metabolites in Rat Urine by UPLC-TOFMS Metabonomics Followed by Ultra High Resolution Mass Spectrometry**; Erwan Werner<sup>1</sup>; Geoffrey Madalinski<sup>1</sup>; Vincent Croixmarie<sup>2</sup>; Thierry Umbdenstock<sup>2</sup>; Eric Ezan<sup>1</sup>; Jean-Claude Tabet<sup>3</sup>; Christophe Junot<sup>1</sup>; <sup>1</sup>CEA-Saclay/DSV/iBiTec-S/SPI/LEMM, Gif-sur-Yvette Cedex, FRANCE; <sup>2</sup>Technologie Servier, Orléans, France; <sup>3</sup>LSSFMB - UMR 7613-CNRS, Paris, France
- WP 371 **High Resolution Mass Spectrometry in Bacterial Metabolomics**; Francesco Pingitore; Peter Benke; Edward Baidoo; Aindrila Mukhopadhyay; Farnaz Nowroozi; Jay Keasling; *University of California, Berkeley/ LBNL, Berkeley, CA*
- WP 372 **Evaluation of Mass Spectrometry Scans Speeds in Metabolomics**; Julia E. Wingate; Gary Impey; *Applied Biosystems/MDS Sciex, Concord, Canada*
- WP 373 **Integrated High Throughput Metabolic Profiling by Direct Infusion FTICR-MS**; Jun Han<sup>1</sup>; Ryan M Danell<sup>2</sup>; Ivan Rusyn<sup>3</sup>; Christoph H. Borchers<sup>1</sup>; <sup>1</sup>University of Victoria, Victoria, BC, Canada; <sup>2</sup>Danell Consulting, Greenville, NC; <sup>3</sup>University of North Carolina at Chapel Hill, Chapel Hill, NC
- WP 374 **Application of Liquid Chromatography/ Fourier Transform Ion Cyclotron Resonance Mass Spectrometry (LC/FTICR-MS) to Plant Metabolite Annotation**; Yoko Iijima<sup>1</sup>; Yukiko Nakamura<sup>3</sup>; Nozomu Sakurai<sup>1</sup>; Yoshiyuki Ogata<sup>1</sup>; Hideyuki Suzuki<sup>1</sup>; Koei Okazaki<sup>1</sup>; Shigehiko Kanaya<sup>2</sup>; Koh Aoki<sup>1</sup>; Daisuke Shibata<sup>1</sup>; <sup>1</sup>KAZUSA DNA Research Institute, Kisarazu, Japan; <sup>2</sup>Graduate School of Information Science, NAIST, Ikoma, Japan; <sup>3</sup>Ehime Women's College, Uwajima, Japan
- WP 375 **Analysis of Catechin Dimer Formation During Simulated Digestion by Liquid Chromatography/Mass Spectrometry**; Bruce R. Cooper<sup>1</sup>; Andrew P. Neilson<sup>1</sup>; Amber Hopf<sup>1</sup>; Michael Pereira<sup>2</sup>; Joshua A. Bomser<sup>2</sup>; Mario G. Ferruzzi<sup>1</sup>; <sup>1</sup>Purdue University, West Lafayette, IN; <sup>2</sup>Ohio State University, Columbus, OH
- WP 376 **Chip Based Nano-Electrospray Ionization for Metabolomics Analysis of Biofluids – A Comparison Between Fast Capillary LC and Infusion Mass Spectrometry**; Olaf Boernsen; Guido Wahl; Stephan Gatzek; *Novartis Pharma AG, Basel, Switzerland*
- WP 377 **The Use of a Novel Type-C Silica to Separate Amino Acids by Aqueous Normal Phase (ANP) with Electrospray (ESI) Detection**; Steven M. Fischer<sup>1</sup>; Joseph Pesek<sup>2</sup>; Maria T. Matyska<sup>2</sup>; <sup>1</sup>Agilent Technologies, Santa Clara, CA; <sup>2</sup>Department of Chemistry, San Jose State University, San Jose, CA
- WP 378 **Quantitation of Amine-Containing Metabolites in Human Urine by Stable-isotope Dimethyl Labeling Combined with LC-FTICR-MS**; Kevin Kun Guo; Cheng Jie Ji; Liang Li; *University of Alberta, Chemistry Dept., Edmonton, CANADA*

XENOBIOTICS

379 - 392

- WP 379 **Metabolite Prediction and Accurate Mass UPLC-MS<sup>E</sup> in Metabolite Identification**; Peter L. Jacobs; Eric van der Meulen; Lars Ridder; Markus Wagener; *N.V. Organon, Oss, Netherlands*

POSTER SPACE

- WP 380 **Analysis of CYP1A1/1B1-Independent Benzo[a]pyrene DNA-Adduct Formation in Human Lung Cancer Cells by LC-MS**; Stacy Gelhaus; Trevor M. Penning; Ian A. Blair; *University of Pennsylvania, Philadelphia, PA*
- WP 381 **Simulation of Oxidative Cytochrome P450 Metabolism Reactions of Amodiaquin by Means of Electrochemistry / Liquid Chromatography / Mass Spectrometry (EC/LC/MS)**; Sebastian Goetz<sup>1</sup>; Wiebke Lohmann<sup>2</sup>; Gabriela Zurek<sup>1</sup>; Andreas Germanus<sup>1</sup>; Uwe Karst<sup>2</sup>; <sup>1</sup>Bruker Daltonik GmbH, Bremen, Germany; <sup>2</sup>University of Muenster, Muenster, Germany
- WP 382 **Rapid Metabolite identification using Advanced Algorithms for Mass Spectral Interpretation**; Mark A. Bayliss; Margaret Antler; Graham McGibbon; Vitaly Lashin; *ACD/Labs, Toronto, Canada*
- WP 383 **Identification of GSH Conjugates of Isoliquiritigenin, a Chemoprevention Agent, in Human Hepatocytes and Rat Liver using Liquid Chromatography-Tandem Mass Spectrometry**; Jian Guo<sup>1</sup>; Ang Liu<sup>1</sup>; John M. Pezzuto<sup>2</sup>; Richard B. van Breemen<sup>1</sup>; <sup>1</sup>University of Illinois College of Pharmacy, Chicago, IL; <sup>2</sup>University of Hawaii at Hilo College of Pharmacy, Hilo, HI
- WP 384 **Are Catechol Estrogen DNA Adducts Biomarkers for Breast Cancer?**; Qiang Zhang; Amanda J. Becker; Rebecca, L. Aft; Cynthia X. Ma; Michael L. Gross; *Washington University in St. Louis, St. Louis, MO*
- WP 385 **Bioactivation of 4,4'-Methylenedianiline to Biliary Intermediates in Rats by LC-ES-MS<sup>n</sup> and NMR Spectroscopy**; Kan Chen<sup>1</sup>; Tammy R. Dugas<sup>2</sup>; Richard B. Cole<sup>1</sup>; <sup>1</sup>University of New Orleans, New Orleans, LA; <sup>2</sup>Louisiana State University HSC - Shreveport, Shreveport, LA
- WP 386 **Search for Biomarkers of Neurotoxic Shellfish Poisoning in Humans by LC-MS/MS**; Ann Abraham<sup>1</sup>; Steven M. Plakas<sup>1</sup>; Leanne Flewelling<sup>2</sup>; Kathleen R. El Said<sup>1</sup>; Edward L.E. Jester<sup>1</sup>; Hudson R. Granade<sup>1</sup>; Robert W. Dickey<sup>1</sup>; <sup>1</sup>FDA, Dauphin Island, AL; <sup>2</sup>Fish and Wildlife Research Institute, St. Petersburg, FL
- WP 387 **Metabolites of Xanthohumol, Isoxanthohumol and 8-Prenylnaringenin in Urine of Women Receiving Hop Extracts**; Jinghu Li<sup>1</sup>; Dejan Nikolic<sup>1</sup>; Sam Possemiers<sup>2</sup>; Selin Bolca<sup>2</sup>; Arne Heyerick<sup>2</sup>; Denis De Keukeleire<sup>2</sup>; Matthew Main<sup>1</sup>; Guido Pauli<sup>1</sup>; Richard B. van Breemen<sup>1</sup>; <sup>1</sup>University of Illinois College of Pharmacy, Chicago, IL; <sup>2</sup>Ghent University-UGent, Gent, Belgium
- WP 388 **In vivo Human Metabolites of Flavonols and Flavanones**; Barry D Davis<sup>1</sup>; Paul A Kroon<sup>2</sup>; Jennifer S Brodbelt<sup>1</sup>; <sup>1</sup>The University of Texas at Austin, Austin, TX; <sup>2</sup>The Institute of Food Research, Norwich, United Kingdom
- WP 389 **LC-MS-MS Identification of Metabolites Arising from Defluorination of the mGluR5 PET Radioligand [<sup>18</sup>F]SP203 in Rat Brain**; H. Umeha Shetty; Sami S. Zoghbi; Fabrice G. Simeon; Robert B. Innis; Victor W. Pike; *Molecular Imaging Branch, NIMH, NIH, Bethesda, MD*
- WP 390 **Detailed Investigation of the Fragmentation of Aminopyridinyl-Sulfanyl-Imidazole-Based MAPKase Inhibitors using Accurate MS(n) and Isotopic Pattern data**; Holger Scheible<sup>1</sup>; Ilmari Krebs<sup>2</sup>; Sebastian Goetz<sup>2</sup>; Gabriela Zurek<sup>2</sup>; Wolfgang Albrecht<sup>3</sup>; Christoph Gleiter<sup>1</sup>; Stefan Laufer<sup>1</sup>; Bernd Kammerer<sup>1</sup>; <sup>1</sup>University of Tuebingen, Tuebingen, Germany; <sup>2</sup>Bruker



WEDNESDAY POSTERS

POSTER SPACE

- Daltonik GmbH, Bremen, Germany; <sup>3</sup>Merckle GmbH, Ulm, Germany
- WP 391 **Blood Brain Barrier or Blood Brain Turnstile? The Use of 4-TAA for the Determination of Blood-Brain Barrier Integrity by MS;** John W. Torchia; Natasha Nikolaidis; Candice Kissinger; Chester Duda; *Bioanalytical Systems, Inc., West Lafayette, IN*
- WP 392 **Generic Dealkylation: A Tool for Increasing the Hit-Rate of Metabolite Identification, and Customizing Mass Defect Filters;** Russell J Mortishire-Smith<sup>1</sup>; Alastair Hill<sup>3</sup>; Jose M Castro-Perez<sup>2</sup>; <sup>1</sup>Johnson & Johnson PR&D, B-2340 Beerse, Belgium; <sup>2</sup>Waters, Boston, MA; <sup>3</sup>dotmatics, Bishops Stortford, UK

NATURAL PRODUCTS I  
393 - 408

- WP 393 **Screening of Marine Bacteria Extracts for Electrophiles that Alkylate Keap1 and Up-regulate the Antioxidant Response Element;** Christopher Pennington; Richard B. van Breemen; *University of Illinois College of Pharmacy, Chicago, IL*
- WP 394 **Discovery of Phosphonate Natural Products Using LC-FTMS;** Paul M Thomas; Craig D Wenger; Joshua A Blodgett; Benjamin T Circello; William W Metcalf; Neil L Kelleher; *University of Illinois, Urbana-Champaign, Urbana, IL*
- WP 395 **Caco-2 cell Permeabilities of Amines and Organic Acids in Black Cohosh (*Cimicifuga racemosa*) Dietary Supplements;** Soyoun Ahn; *University of Illinois, Chicago, IL*
- WP 396 **Resonant Electron Capture Mass Spectrometry of Some Spinochromes, Antioxidants from Sea Urchins;** Valery G. Voinov<sup>1</sup>; Yury Vasilev<sup>1</sup>; Max Deinzer<sup>1</sup>; Doug Barofsky<sup>1</sup>; Natalia Mishchenko<sup>2</sup>; Sergey Fedoreyev<sup>2</sup>; <sup>1</sup>Oregon State University, Corvallis, Oregon; <sup>2</sup>PIBOC, Vladivostok, Russia
- WP 397 **Determination of Vitamin-D3 and 25-Hydroxy-Vitamin D3 Metabolite in Meat by LC-MSMS;** Louis Bilodeau; Guy Duffresne; André Robichaud; Jessica Bertrand; *Health Canada, Longueuil, Canada*
- WP 398 **Determination of the Antioxidative Components in Reishi by On-line HPLC Activity Analysis and Electrospray Ionization Mass Spectrometry;** Chang-Hsin Kuo; Chen-Wei Liao; Kuo-Lung Ku; *National Chiayi University, Chiayi City, Taiwan*
- WP 399 **Characterization of Cucurbitane Glycosides from the Fruit of *Momordica grosvenori* with LCMS and Their Inhibitory Effects on Epstein-Barr Virus Activation;** Naoto Shimizu<sup>1</sup>; Toshihiro Akihisa<sup>2</sup>; Hiroki Kumagai<sup>1</sup>; Christine Miller<sup>1</sup>; Takashi Suzuki<sup>2</sup>; Yumiko Kimura<sup>2</sup>; Harukuni Tokuda<sup>3</sup>; <sup>1</sup>Agilent Technologies, Tokyo & Santa Clara, Japan & USA; <sup>2</sup>Nihon University, Tokyo & Chiba, Japan; <sup>3</sup>Kyoto Prefectural University, Kyoto, Japan
- WP 400 **Application of FTMS to the Study of Enzymatic Halogenation on Non-Ribosomal Peptide Synthetases;** Stefanie B. Bumpus<sup>1</sup>; Michael T. Boyne II<sup>1</sup>; C. Eric Thomas<sup>1</sup>; Danica P. Galonic<sup>2</sup>; Fred H. Vaillancourt<sup>2</sup>; Christopher T. Walsh<sup>2</sup>; Neil L. Kelleher<sup>1</sup>; <sup>1</sup>University of Illinois Urbana-Champaign, Urbana, IL; <sup>2</sup>Harvard Medical School, Harvard University, Boston, MA
- WP 401 **Screening and Identification of Potential Hepatoprotective Components with On-line Activity Assay and Synchronous ESI-MS;** Yeunghaw Ho<sup>2</sup>; Lin-Chiang Yang<sup>1</sup>; Hui-Fen Liao<sup>1</sup>; Kuo-Lung Ku<sup>1</sup>;

POSTER SPACE

- <sup>1</sup>National Chiayi University, Chiayi City, Taiwan; <sup>2</sup>National University of Kaohsiung, Kaohsiung City, Taiwan
- WP 402 **Heavy Metals and Toxic Element Detection in Herbal Medicines with Electrospray Time-Of-Flight Mass Spectrometry;** Shida Shen; Craig Whitehouse; *Analytica of Branford, Inc., Branford, CT*
- WP 403 **Natural Products Chemistry and Proteomics: Tools and Strategies to Uncover Mechanism of Action of Anticancer Leads;** Joel R. Sevinsky; Yuka Nakanishi; Megan Rowland; David J. Kroll; Nicholas H. Oberlies; James L. Stephenson Jr; *Research Triangle Institute, Research Triangle Park, NC*
- WP 404 **Rapid Picogram Determination of Ganoderic Acids from Diet in Animal Tissue Extracts;** Luke Gumaelius<sup>1</sup>; Jiri Adamec<sup>1</sup>; Dan Sliva<sup>2</sup>; <sup>1</sup>purdue University, West Lafayette, IN; <sup>2</sup>Methodist Research Institute, Indianapolis, IN
- WP 405 **High Throughput Screening of Metabolic Pathway Intermediates of the Antimalarial drug Artemisinin in *Artemisia annua* using UPLC-LTQ-Orbitrap and MALDI-TOF;** Gideon Oudgenoeg; Maggie Smallwood; Ian Graham; Tony Larson; Dianna Bowles; *University of York, Heslington, York, United Kingdom*
- WP 406 **ESI-MS Investigation of Model Chiral Bivalent Recognition Systems;** Manishkumar D. Joshi<sup>1</sup>; Frycak Petr<sup>1</sup>; Norbert M. Maier<sup>2</sup>; Wolfgang Linder<sup>2</sup>; Daniel W. Armstrong<sup>1</sup>; Kevin A. Schug<sup>1</sup>; <sup>1</sup>UT- Arlington, Arlington, TX; <sup>2</sup>University of Vienna, Vienna, Austria
- WP 407 **Reactivity of Xanthohumol, a Prenylated Chalcone from Hops (*Humulus lupulus* L.), Toward Biological Nucleophiles;** Dejan Nikolic; Barbara Calamini; Yan Luo; Lucas R. Chadwick; Andrew Mesecar; Guido F Pauli; Judy L Bolton; Richard B. van Breemen; *University of Illinois College of Pharmacy, Chicago, IL*
- WP 408 **Collision Energy Switching Hybrid Quadrupole Time of Flight Mass Spectrometry with Rapid Liquid Chromatography for Plant Metabolite Identification;** Emma Marsden-Edwards<sup>13</sup>; João Rodrigues<sup>2</sup>; Steve McDonald<sup>13</sup>; Joana Ferreira<sup>4</sup>; Amélia Rauter<sup>4</sup>; Jorge Justino<sup>5</sup>; Jane Thomas-Oates<sup>6</sup>; <sup>1</sup>Waters Corporation, Manchester, United Kingdom; <sup>2</sup>University of Dundee, Dundee, United Kingdom; <sup>3</sup>Waters Corporation, Beverly, MA; <sup>4</sup>Universidade de Lisboa, Lisboa, Portugal; <sup>5</sup>Instituto Politécnico de Santarém, Santarém, Portugal; <sup>6</sup>University of York, York, United Kingdom

LIPIDS  
409 - 422

- WP 409 **Determination of Optimal Nano Electrospray Conditions, Solvent System, and Emitter Dimensions Used for Nano Electrospray Studies of Lipids;** Ellen Pace; Simon Prosser; Jack Henion; *Advion BioSciences, Ithaca, NY*
- WP 410 **Structural Characterization of Neutral and Acidic Lipids by TLC/VC-FTMS and MS/MS;** Vera B. Ivleva<sup>1</sup>; Monica Viveros-Rogel<sup>2</sup>; David S. Newburg<sup>3</sup>; Guillermo Ruiz-Palacios<sup>2</sup>; Peter B. O'Connor<sup>1</sup>; Catherine E. Costello<sup>1</sup>; <sup>1</sup>Boston University School of Medicine, Boston, MA; <sup>2</sup>Instituto Nacional de Ciencias Medicas y Nutricion, Mexico, Mexico; <sup>3</sup>Massachusetts General Hospital, Boston, MA
- WP 411 **Selective Ionization of Lipid Classes using Au Matrices and MALDI-TOF/TOF MS;** Jeremy Post; Shelley Jackson; Amina Woods; *NIH/NIDA-IRP, Baltimore, MD*

WEDNESDAY POSTERS

POSTER SPACE

- WP 412 **Collision Stimulated Release of Fatty Acids from Acylglycerides by Electro spray Ionisation Fourier Transform Ion Cyclotron Resonance Mass Spectrometry;** Nicholas W Proschogo; Gary D Willett; Ivan F Taylor; Naresh Kumar; *University of New South Wales, Sydney, Australia*
- WP 413 **The Phospholipids and Fatty Acids of *Bdellovibrio bacteriovorus*;** Larry Sallans; Nhu-An T. Nguyen; Stephen F. Macha; Edna S. Kaneshiro; *University of Cincinnati, Cincinnati, OH*
- WP 414 **MALDI-TOF MS Analysis of Phospholipids: First Results of a Coupled TLC-MALDI System;** Beate Fuchs<sup>1</sup>; Jürgen Schiller<sup>1</sup>; Rosmarie Süß<sup>1</sup>; Martin Schürenberg<sup>2</sup>; Detlef Suckau<sup>2</sup>; <sup>1</sup>*University of Leipzig, Leipzig, Germany*; <sup>2</sup>*Bruker Daltonik GmbH, Bremen, Germany*
- WP 415 **Enhanced Production of Cationized Molecular Ions by MALDI and Structural Elucidation of Triacylglycerols by PSD using a Graphite Matrix;** Douglas J.H Olson; E. Michael Giblin; David C. Taylor; Andrew R.S. Ross; *National Research Council, Saskatoon, CANADA*
- WP 416 **Structural Characterization of Lipid A from *Yersinia pestis* using Mass Spectrometry;** Jace W. Jones; Robert K. Ernst; František Turecek; David R. Goodlett; Scott Shaffer; *University of Washington, Seattle, WA*
- WP 417 **Characterization and Quantification of VLCPUFA-PC in Bovine Retina Rod Outer Segments;** Kristal Maner; J. Thomas Brenna; *Cornell University, Ithaca, NY*
- WP 418 **Analysis of Lipopolysaccharide and Lipid A Isolated from *Acinetobacter Iwoffii* F78 by FT-ICR MS;** Göran Hübner; Anna Hanuszkiewicz; Otto Holst; Buko Lindner; *Research Center Borstel, Borstel, Germany*
- WP 419 **Quantitative Analysis of Novel Phospholipid in Rodent Brain by Nano Flow Normal Phase Liquid Chromatography with Tandem Mass Spectrometry;** Shinya Ito<sup>1</sup>; Takuji Nabetani<sup>2</sup>; Yoko Shinoda<sup>2</sup>; Yasuko Nagatsuka<sup>2</sup>; Yoshio Hirabayashi<sup>2</sup>; <sup>1</sup>*Hitachi High-Technologies, Tokyo, Japan*; <sup>2</sup>*RIKEN, Saitama, Japan*
- WP 420 **Comparison of QTrap and Chip-Based Nanospray Q-ToF for Identification of Sulfatides in Complex Mixtures;** Jeremy Allegood; Elaine Wang; M. Cameron Sullards; Alfred H. Merrill Jr; *Georgia Institute of Technology, Atlanta, GA*
- WP 421 **Profiling of Membrane Lipids by On-Line Reversed-Phase Liquid Chromatography Electro spray Ionization FT-ICR Mass Spectrometry;** Huan He; Mark R Emmett; Carol L. Nilsson; Alan G. Marshall; *Florida State University, Tallahassee, FL*
- WP 422 **Lipid Composition Comparison and Structural Analysis from Clostridium Thermocellum Wild-Type and Ethanol-adapted Strains;** Michael D. Timmons; Herbert J. Strobel; Barbara L. Knutson; Sue E. Nokes; Bert C. Lynn; *University of Kentucky, Lexington, KY*

MICROBIAL ANALYSIS II  
423 - 437

- WP 423 **Characterization of a Novel Endogenous Metabolite through Mass Spectrometry, Metabolite Mass Spectral Databases and Chemical Synthesis;** Ewa Kalisiak<sup>1</sup>; Jaroslaw Kalisiak<sup>1</sup>; Hiro Morita<sup>1</sup>; Angeli Lal Menon<sup>2</sup>; Farris L. Poole II<sup>2</sup>; Michael W. W. Adams<sup>2</sup>; Sunia A. Trauger<sup>1</sup>; Gary Siuzdak<sup>1</sup>; <sup>1</sup>*The Scripps Research Institute, La Jolla, CA*; <sup>2</sup>*University of Georgia, Athens, GA*

POSTER SPACE

- WP 424 **Phylogenetic Classification of *Pseudomonas putida* by MALDI-MS using Ribosomal Proteins as Molecular Clocks;** Kanae Teramoto<sup>1</sup>; Hiroaki Sato<sup>1</sup>; Liwei Sun<sup>1</sup>; Masaki Torimura<sup>1</sup>; Hiroaki Tao<sup>1</sup>; Yudai Hotta<sup>2</sup>; Hiroto Tamura<sup>2</sup>; Hiromichi Yoshikawa<sup>3</sup>; <sup>1</sup>*Natl. Inst. Adv. Ind. Sci. & Technol. (AIST), Tsukuba, Japan*; <sup>2</sup>*Meijo University, Nagoya, Japan*; <sup>3</sup>*Fukuoka Institute of Technology, Fukuoka, Japan*
- WP 425 **Proteogenomics Reveals Key Insight into the Microbial Activities of Enhanced Biological Phosphorus Removal in Activated Sludge;** Mark G. Lefsrud<sup>1</sup>; Paul Wilmes<sup>2</sup>; Nathan C. VerBerkmoes<sup>1</sup>; Margaret Wexler<sup>3</sup>; Paul E. Abraham<sup>1</sup>; Manesh B. Shah<sup>1</sup>; Phil L. Bond<sup>4</sup>; Jill F. Banfield<sup>2</sup>; Robert L. Hettich<sup>1</sup>; <sup>1</sup>*Oak Ridge National Laboratory, Oak Ridge, Tennessee*; <sup>2</sup>*University of California, Berkeley, Berkeley, California*; <sup>3</sup>*University of East Anglia, Norfolk, England*; <sup>4</sup>*The University of Queensland, Brisbane, Australia*
- WP 426 **Structural Characterization of *Actinomyces naeslundii* Fimbriae using Mass Spectrometry;** Jenny T.C. Ho<sup>1</sup>; John O. Cisar<sup>2</sup>; Sonja Hess<sup>3</sup>; <sup>1</sup>*NIH/NIDDK, Bethesda, MD*; <sup>2</sup>*NIDCR/NIH, Bethesda, MD*; <sup>3</sup>*California Institute of Technology, Pasadena, CA*
- WP 427 **Effect of Microbial Sample Processing Conditions on Bacterial Identification Using Mass Spectrometry-Based Proteomics Approach;** Rabih E. Jabbour<sup>1</sup>; Jacek P. Dworzanski<sup>1</sup>; Samir V. Deshpande<sup>2</sup>; Charles H. Wick<sup>3</sup>; Alan W. Zulich<sup>3</sup>; <sup>1</sup>*SAIC INC., APG, MD, 21010*; <sup>2</sup>*Science and Technology Corporation, Edgewood, MD, 21040*; <sup>3</sup>*U.S. Army Edgewood Chemical Biological Center, APG, MD, 21010*
- WP 428 **Mass Spectrometric Identification of Protein Complexes in *Rhodospseudomonas palustris*;** Gregory B. Hurst<sup>1</sup>; Dale A. Pelletier<sup>1</sup>; Stephen J. Kennel<sup>1</sup>; Frank W. Larimer<sup>1</sup>; W. Hayes McDonald<sup>1</sup>; Trish K. Lankford<sup>1</sup>; Linda J. Foote<sup>1</sup>; Cathy K. McKeown<sup>1</sup>; Elizabeth T. Owens<sup>1</sup>; Manesh B. Shah<sup>1</sup>; Denise D. Schmoyer<sup>1</sup>; Tse-Yuan S. Lu<sup>1</sup>; Jennifer L. Morrell-Falvey<sup>1</sup>; Mitchel J. Doktycz<sup>1</sup>; Brian S. Hooker<sup>2</sup>; Deanna L. Auberry<sup>2</sup>; William R. Cannon<sup>2</sup>; Don S. Daly<sup>2</sup>; Amanda M. White<sup>2</sup>; Julia L. Sharp<sup>3</sup>; Kevin K. Anderson<sup>2</sup>; H. Steven Wiley<sup>2</sup>; Michelle V. Buchanan<sup>1</sup>; <sup>1</sup>*Oak Ridge National Laboratory, Oak Ridge, TN*; <sup>2</sup>*Pacific Northwest National Laboratory, Richland, WA*; <sup>3</sup>*Montana State University, Bozeman, MT*
- WP 429 **Analysis of Tricarboxylic Acid Cycle Intermediates from *Shewanella oneidensis* MR-1 using Capillary Electrophoresis Time of Flight Mass Spectrometry;** Sandra Villa<sup>1</sup>; Peter Benke<sup>2</sup>; Edward Baidoo<sup>2</sup>; Christopher J. Petzold<sup>1</sup>; Aindrila Mukhopadhyay<sup>2</sup>; Julie A. Leary<sup>4</sup>; Jay D. Keasling<sup>1</sup>; <sup>1</sup>*UCB, Berkeley, CA*; <sup>2</sup>*Virtual Institute for Microbial Stress & Survival, Berkeley, CA*; <sup>3</sup>*Lawrence Berkeley National Laboratory, Berkeley, CA*; <sup>4</sup>*University of California Davis, Davis, CA*
- WP 430 **Qualitative and Quantitative Protein Profiling for Target Identification Studies with Drug-Induced Changes in Mycobacteria;** Jeffrey C. Silva<sup>1</sup>; Minerva A. Hughes<sup>2</sup>; Craig A. Dorschel<sup>1</sup>; Scott J. Geromanos<sup>1</sup>; Johannes P. C. Vissers<sup>1</sup>; Craig A. Townsend<sup>2</sup>; <sup>1</sup>*Waters Corporation, Milford, MA*; <sup>2</sup>*The Johns Hopkins University, Baltimore, MD*
- WP 431 **Search for New Antibiotics Produced by *Bacillus* Strains;** Jean-Marie Schmitter; Philippe Bressollier;

WEDNESDAY POSTERS

POSTER SPACE

- Bernard Verneuil; Anne Chobelet; Armelle Ballade; Maria Urdaci; *IECB, Pessac, France*
- WP 432 **Probing the Structures of Defensin Antimicrobial Peptides by Ion Mobility and Gas Phase Hydrogen/Deuterium Exchange Mass Spectrometry;** Wutharath Chin; *University of Edinburgh, Edinburgh, United Kingdom*
- WP 433 **Sample Preparation Strategies for MALDI-TOF MS Fingerprinting of Mycobacteria;** Amanda D. Buskirk<sup>1</sup>; Sadia Ali<sup>2</sup>; Justin M. Hettick<sup>1</sup>; Paul D. Siegel<sup>1</sup>; Donald H. Beezhold<sup>1</sup>; <sup>1</sup>*National Inst. for Occupational Safety and Health, Morgantown, WV*; <sup>2</sup>*West Virginia University School of Medicine, Morgantown, WV*
- WP 434 **From Genome to Metabolome: Correlating a Systems-wide Response to Environmental Adaptation in a Hyperthermophile;** Sunia Trauger<sup>1</sup>; Ewa Kalisiak<sup>1</sup>; Jarek Kalisiak<sup>1</sup>; Angeli Menon<sup>2</sup>; Farris Poole<sup>2</sup>; Michael Adams<sup>2</sup>; Gary Siuzdak<sup>1</sup>; <sup>1</sup>*The Scripps Research Institute, La Jolla, CA*; <sup>2</sup>*University of Georgia, Athens, GA*
- WP 435 **Comparison of Different Sample Preparation Techniques for Differentiation of Mycotoxin-producing Fusarium species by MALDI-TOF/RTOF Mass Spectrometry;** Jasmin Hirschmann<sup>1</sup>; Martina Marchetti<sup>1</sup>; Robert Mach<sup>1</sup>; Omar Belgacem<sup>2</sup>; Emmanuel Raptakis<sup>2</sup>; Christian Peter Kubicek<sup>1</sup>; Günter Allmaier<sup>1</sup>; <sup>1</sup>*Vienna University of Technology, Vienna, Austria*; <sup>2</sup>*Shimadzu Biotech Kratos Analytical, Manchester, UK*
- WP 436 **Utility of tbdms-Derivatization and Software-Enhanced Mass Resolution for GC-MS Identification of Hydroxy Fatty Acids in Complex Bacterial Lipid Mixtures;** Deborah L. Chance; Thomas P. Mawhinney; *University of Missouri, Columbia, MO*
- WP 437 **Proteomic and Genomic Analysis of Lycopene-Overproducing Escherichia coli Strains;** Brian E Mickus<sup>1</sup>; Jeffrey C Silva<sup>2</sup>; Johannes PC Vissers<sup>2</sup>; Hal Alper<sup>1</sup>; Joel F Moxley<sup>1</sup>; Gregory Stephanopoulos<sup>1</sup>; Charles L Cooney<sup>1</sup>; <sup>1</sup>*Massachusetts Institute of Technology, Cambridge, MA*; <sup>2</sup>*Waters Corporation, Milford, MA*

NUCLEIC ACIDS I  
438 - 454

- WP 438 **Comparing Collision Induced Dissociation and Electron Capture Dissociation for the Sequencing of Peptide:Oligonucleotide Heteroconjugates;** Kady Krivos; Larry Sallans; Patrick A Limbach; *University of Cincinnati, Cincinnati, OH*
- WP 439 **Characterization of Nucleic Acid Secondary Structure by Gas-phase H/D Exchange in a Q-FT-ICR Mass Spectrometer;** Jingjie Mo; Kristina Håkansson; *University of Michigan, Ann Arbor, MI*
- WP 440 **Identification of Crosslinked DNA/Acridine Mustard Adducts by IRMPD-MS;** Sarah E. Pierce<sup>1</sup>; Suncerae I. Smith<sup>1</sup>; Lynn Guziec<sup>2</sup>; Frank S. Guziec, Jr.<sup>2</sup>; Jennifer S. Brodbelt<sup>1</sup>; <sup>1</sup>*University of Texas-Austin, Austin, TX*; <sup>2</sup>*Southwestern University, Georgetown, TX*
- WP 441 **Global Quantification of Transfer RNAs (tRNAs) by their Signature Digestion Products using Stable Isotope Labeling and MALDI-MS;** Mahmud Hossain; Patrick A. Limbach; *University of Cincinnati, Cincinnati, OH*
- WP 442 **Identification of Oligonucleotide-Peptide Cross-Links using Mass Defect Scans;** Soheil Pourshahian; Patrick A Limbach; *University of Cincinnati, Cincinnati, OH*
- WP 443 **Gas-Phase Stability of G-quadruplex DNA Determined by Electrospray Ionization Tandem**

POSTER SPACE

- Mass Spectrometry and Molecular Dynamics Simulations;** Carolyn Mazzitelli; Joseph Chipuk; Junmei Wang; Jennifer Brodbelt; *The University of Texas, Austin, TX*
- WP 444 **Analysis of Antisense Oligonucleotides using Ion-Pair Reversed-Phase LC-UV-MS and Capillary Gel Electrophoresis;** Jin Wu; Saima Syed; Robert Papp; Thanh H. Hoang; Camil Sayegh; Deborah Nicoll-Griffith; Kevin P. Bateman; *Merck Frosst Centre for Therapeutic Research, Kirkland, Canada*
- WP 445 **Detection and Quantification of Methylation in Genomic DNA;** Yuan Gao; Yinsheng Wang; *University of California, Riverside, Riverside, CA*
- WP 446 **Quantitative Analysis of DNA Lesions Induced by Hydroxyl Radical at GC/GmC Sites using Ascorbic Acid/H2O2 and Cu (II) or Fe(II);** Huachuan Cao; Yinsheng Wang; *University of California, Riverside, Riverside, CA*
- WP 447 **Impact of Cytosine Methylation on the Reactivity of Adjacent Guanines in DNA Evaluated by CAD and IRMPD;** Suncerae Smith<sup>1</sup>; Wendy Marriner<sup>1</sup>; Frank Guziec<sup>2</sup>; Sean Kerwin<sup>1</sup>; Jennifer S. Brodbelt<sup>1</sup>; <sup>1</sup>*University of Texas at Austin, Austin, TX*; <sup>2</sup>*Southwestern University, Georgetown, TX*
- WP 448 **Determining Binding Affinity of Quadruplex Structures and Specific Metal Cations using ESI-MS;** J. Micah Wilcox; Michael L. Gross; *Washington University, St. Louis, MO*
- WP 449 **Unconventional Self-Assembled DNA Structures: Isoguanine Containing Pentaplexes and PNA/DNA Complexes for Sensing and Therapeutics;** Carol E. Parr<sup>1</sup>; Sarah E. Pierce<sup>1</sup>; Suncerae I. Smith<sup>1</sup>; Kerry Bruns<sup>2</sup>; Janarthanan Jayawickramarajah<sup>3</sup>; Jennifer S. Brodbelt<sup>1</sup>; <sup>1</sup>*The University of Texas at Austin, Austin, TX*; <sup>2</sup>*Southwestern University, Georgetown, TX*; <sup>3</sup>*Yale University, New Haven, CT*
- WP 450 **LC-MS/MS Analysis of Nanoparticle-Induced Oxidative DNA Damage;** Haizheng Hong; Yinsheng Wang; *University of California at Riverside, Riverside, CA*
- WP 451 **The Effect of 6-Thioguanine on the Methylation of Cytosine by Bacteria and Human Methyltransferases;** Hongxia Wang; Yinsheng Wang; *University of California, Riverside, Riverside, CA*
- WP 452 **Quantitative Analysis of RNAs using Isotope Labeling and Data-Dependent LC-MS/MS;** Colette Castleberry; Larry Sallans; Patrick A Limbach; *University of Cincinnati, Cincinnati, OH*
- WP 453 **Title: Probing the Conformations of the 5'-UTR Riboswitch of HIV-1 using Crosslinking Reagents and ESI-FTICR Mass Spectrometry;** Dong Yang; Daniele Fabris; *University of Maryland, Baltimore County, Baltimore, MD*
- WP 454 **Identifying Post-Translational and Post-Transcriptional Modifications Which Affect Ribosome Assembly;** Rebecca Rohlfs; Patrick A Limbach; *University of Cincinnati, Cincinnati, OH*

PROTEINS: FOLDING  
455 - 464

- WP 455 **Exploring Trp-Cage Configurations Both in the Dry and When Wet;** Perdita Barran; Jason Kalapothakis; Claire MacMillan; Bryan McCullough; *The University of Edinburgh, Edinburgh, Edinburgh*
- WP 456 **Using Mass Spectrometry-Based Hydrogen/Deuterium Exchange for the Optimization**

WEDNESDAY POSTERS

POSTER SPACE

- of Protein Constructs in NMR Structure Determination; Seema Sharma; Haiyan Zheng; Li-chung Ma; Janet Huang; Peter Lobel; Gaetano T. Montelione; *CABM, Rutgers University, Piscataway, NJ*
- WP 457 **Signal Response of Co-Existing Protein Conformers in Electrospray Ionization Mass Spectrometry**; Mark C. Kuprowski; Lars Konermann; *University of Western Ontario, London, CANADA*
- WP 458 **The First Step of Hen Egg White Lysozyme Fibrillation, Irreversible Partial Unfolding, Studied by ESI MS**; Ming Xu<sup>2</sup>; Viktor A. Shashilov<sup>2</sup>; Vladimir V. Ermolenkov<sup>2</sup>; Laura Fredriksen<sup>2</sup>; Igor K. Lednev<sup>2</sup>; Dmitri Zagorevski<sup>1</sup>; *<sup>1</sup>Rensselaer Polytechnic Institute, Troy, NY; <sup>2</sup>University at Albany, SUNY, Albany, NY*
- WP 459 **The Structure of Human Prion Protein Amyloid Fibrils Determined by Hydrogen Exchange-Mass Spectrometry**; Xiaojun Lu; Patrick L. Wintrode; Witold K. Surewicz; *Case Western Reserve University, Cleveland, OH*
- WP 460 **Protein Folding Studied by ESI-MS: Insights into the Relationship between Protein Conformation and Charge State Distribution from Molecular Dynamics Simulations**; Lars Konermann; *University of Western Ontario, London, Canada*
- WP 461 **Mechanism of the Insertion of Bilayer Membrane by Melittin**; Kazumi Saikusa; *Graduate school of science, Hiroshima University, Higashihiroshima, Japan*
- WP 462 **Probing the Gas Phase Folding Kinetics of Peptide Ions by IR Activated DR-ECD**; Cheng Lin; JASON J. Cournoyer; Peter B. O'Connor; *Boston University, Boston, MA*
- WP 463 **Temperature-Dependent Hydrogen/Deuterium Exchange is an Indispensable Tool for Characterizing ALS Mutant SOD1 Proteins**; Armando Durazo<sup>1</sup>; Bryan F. Shaw<sup>2</sup>; Kym F. Faul<sup>1</sup>; Julian P. Whitelegge<sup>1</sup>; Joan S. Valentine<sup>1</sup>; *<sup>1</sup>UCLA, Los Angeles, CA; <sup>2</sup>Harvard, Cambridge, MA*
- WP 464 **Ex Vivo Analysis of Protein-Ligand Binding Interactions in Cellular Pathways using SUPREX**; Petra L. Roulhac<sup>1</sup>; Katherine D. Weaver<sup>1</sup>; Timothy A. Mietzner<sup>2</sup>; Cynthia N. Cornelissen<sup>3</sup>; Alvin L. Crumbliss<sup>1</sup>; Michael C. Fitzgerald<sup>1</sup>; *<sup>1</sup>Duke University, Durham, NC; <sup>2</sup>University of Pittsburgh, Pittsburgh, PA; <sup>3</sup>Virginia Commonwealth University, Richmond, VA*

**PROTEOMICS: BIOCHEMISTRY**  
465 - 482

- WP 465 **Protein Profilings in Mouse Liver Regeneration after Partial Hepatectomy Using iTRAQ Technology**; Ming-Fong Chang; Hui-Chu Hsieh; Yi-Ting Chen; See-Chang Huang; Tzu-Ling Tseng; Sung-fang Chen; *Industrial Technology Research Institute, Chutung, Taiwan*
- WP 466 **iTRAQ Analysis of Macrophage Response to QS Molecules**; Srinivas Iyer<sup>1</sup>; Rashi Iyer<sup>1</sup>; Rebecca Martin<sup>1</sup>; Sanjeev Bhardwaj<sup>2</sup>; James E Carlson<sup>3</sup>; *<sup>1</sup>LANL, Los Alamos, NM; <sup>2</sup>Merck Research Laboratory, west point, PA; <sup>3</sup>Applied Biosystems, Framingham, MA*
- WP 467 **Tracking the Endocytotic Pathway Through Quantitative Proteomics**; Gregg Czerwiec; Fannie W. Chen; Yiannis A. Ioannou; Rong Wang; *Mount Sinai School of Medicine, New York, NY*
- WP 468 **Amino Acid Starvation-Induced Changes in the Cellular Proteome**; Anders Riis Kristensen<sup>1</sup>; Joern Dengjel<sup>1</sup>; Soeren Gade<sup>1</sup>; Maria Hoyer-Hansen<sup>2</sup>; Marja Jaattela<sup>2</sup>; Jens S Andersen<sup>1</sup>; *<sup>1</sup>CEBI, University of*

POSTER SPACE

- Southern Denmark, Odense, Denmark; <sup>2</sup>Danish Cancer Society, Copenhagen, Denmark*
- WP 469 **Investigation the Role of Glycosylation on the Self-Assembly of Human Serum Amyloid P using Mass Spectrometry**; Jiayi Wang; Gina Dimopoulos-Italiano; Brian McCarry; M. Kirk Green; *MRCMS, McMaster University, Hamilton, Canada*
- WP 470 **The Gram-positive Ribosomal Proteome**; William Running; James P. Reilly; *Indiana University, Bloomington, IN*
- WP 471 **Investigation of the Norway Spruce Proteome Following Elicitation with Chitosan, a Fungal Cell Wall Derivative**; Dustin N Lippert<sup>1</sup>; Michael Phillips<sup>2</sup>; Cristoph Borchers<sup>3</sup>; Jonathan Gershenson<sup>2</sup>; Joerg Bohlmann<sup>1</sup>; *<sup>1</sup>University of British Columbia, Vancouver, Canada; <sup>2</sup>Max Planck Institute for Chemical Ecology, Jena, Germany; <sup>3</sup>UVic-GenomeBC Proteomics Centre, Victoria, Canada*
- WP 472 **On the Influence of Calcium and Recoverin on Rhodopsin Phosphorylation in Mice Retinas**; Junhua Wei; James B. Hurley; *University of Washington, Biochemistry Department, Seattle, WA*
- WP 473 **In-solution Isoelectric-Focussing as an Effective Pre-Fractionation Strategy for Haemozoin Containment and High Resolution Gel-Based Analyses of the Plasmodium Falciparum Proteome**; Niroshini Nirmalan; Fiona Flett; Tom Skinner; Paul Sims; John Hyde; *Manchester Interdisciplinary Biocentre, University, United Kingdom*
- WP 474 **Quantitative Proteomics of Mouse Embryonic Stem Cells: Conditions for effective SILAC Labeling**; Johannes Graumann<sup>1</sup>; Jeong Beom Kim<sup>2</sup>; Kinarm Ko<sup>2</sup>; Nina Hubner<sup>1</sup>; Markus Moser<sup>1</sup>; Hans Schoeler<sup>2</sup>; Matthias Mann<sup>1</sup>; *<sup>1</sup>Max-Planck-Institute for Biochemistry, Martinsried, Germany; <sup>2</sup>Max-Planck-Institute for Molecular Biomedicine, Muenster, Germany*
- WP 475 **Following the Dynamics of the Cop9/Signalosome Interactome using MRM**; Brett Larsen<sup>1</sup>; Steve Tate<sup>2</sup>; Lionel Pintard<sup>1</sup>; Marcia Roy<sup>1</sup>; David Cox<sup>2</sup>; Eva Duchoslav<sup>2</sup>; Chris Lock<sup>2</sup>; Mike Tyers<sup>1</sup>; *<sup>1</sup>Samuel Lunenfeld Research Institute, Toronto, Canada; <sup>2</sup>Applied Biosystems/MDS Sciex, Concord, Canada*
- WP 476 **Exploring the Acting Mechanism of Nitric Oxide by Proteomic Study using in vitro Cell Cultures as a Model System**; Yi-Ju Chen<sup>1</sup>; Wei-Chi Ku<sup>3</sup>; Ming-Li Tsai<sup>4</sup>; Wen-Feng Liaw<sup>4</sup>; Yu-Ju Chen<sup>2</sup>; *<sup>1</sup>National Chung Hsing University, Taichung, Taiwan; <sup>2</sup>Institute of Chemistry, Academia Sinica, Taipei, Taiwan; <sup>3</sup>CBMB, TIGP, Academia Sinica, Taipei, Taiwan; <sup>4</sup>National Tsing-Hua University, Hsinchu, Taiwan*
- WP 477 **An ESI-FTICR Assay of HIV-1 Reverse Transcriptase Activity to Screen for Uncompetitive Enzyme Inhibitors**; Olesya Chornoguz<sup>1</sup>; Kevin B. Turner<sup>1</sup>; Hye Young Yi-Brunozzi<sup>2</sup>; Jennifer T. Miller<sup>2</sup>; Stuart F.J. Le Grice<sup>3</sup>; Daniele Fabris<sup>1</sup>; *<sup>1</sup>University of Maryland Baltimore County, Baltimore, MD; <sup>2</sup>NCI, National Institute of Health, Frederick, Maryland*
- WP 478 **Tandem Affinity Purification and Proteomics to Identify Activin Receptor Signal Transduction and Crosstalk**; Karsten Schmidt; William Low; Wolfgang H. Fischer; *Salk Institute, La Jolla, CA*
- WP 479 **FT-ICR MS Proteomic Analysis of Endogenous TAP-tagged CTCF Transcription Factor Complexes**; Matthew B. Renfrow; Yi-Shin Lai; Monica W. Stinnett; LeeAnn J. Boerma; Chia-Wei Chang; Greg Bowersock;

WEDNESDAY POSTERS

POSTER SPACE

- Tim M. Townes; *University of Alabama at Birmingham, Birmingham, AL*
- WP 480 **Tandem Mass Spectrometry for Measuring Changes in Interacting Proteins in the Proteasome Upon Exposure to Ethanol;** Sara Bassilian<sup>1</sup>; Fawzia Bardag-Gorce<sup>2</sup>; Barbara French<sup>2</sup>; Samuel French<sup>2</sup>; Julian Whitelegge<sup>1</sup>; <sup>1</sup>*The Pasarow Mass Spectrometry Laboratory, UCLA, Los Angeles, CA*; <sup>2</sup>*LABioMed at Harbor-UCLA Medical Center, Torrance, CA*
- WP 481 **Dramatic Down-regulation of Oxidoreductases in Human Hepatocellular Carcinoma HepG2 Cells: Proteomics and Bioinformatics Unveiling New Frontiers in Disease Enzymology;** Lambert C. Ngoka; *Virginia Commonwealth Univ., Richmond, VA*
- WP 482 **Identification of AP-4 Complex as Potential Transcriptional Regulator of Mdm2 by Quantitative Proteomic Approach;** Wei-chi Ku<sup>1</sup>; Hsin-Hung Huang<sup>2</sup>; Yi-Ju Chen<sup>3</sup>; Yu-Ju Chen<sup>2</sup>; <sup>1</sup>*CBMB, TIGP, Academia Sinica, Taipei, Taiwan*; <sup>2</sup>*Institute of Chemistry, Academia Sinica, Taipei, Taiwan*; <sup>3</sup>*National Chung-Hsing University, Taichung, Taiwan*

**PROTEOMICS: CANCER BIOMARKERS I  
483 - 502**

- WP 483 **Online Multidimensional LCn-nESI-QqTOF-MS-MS Analysis for Novel Protein Biomarkers in Prostate Cancer using Multi-phasic Capillary Chromatographic Chemistries;** Spiros D. Garbis<sup>1</sup>; Theodoros Roumeliotis<sup>1</sup>; Panagiotis Zerefos<sup>1</sup>; Stavros I. Tyritzis<sup>2</sup>; Kitty Pavlakis<sup>3</sup>; Antonia Vlahou<sup>1</sup>; Sophia Kossida<sup>1</sup>; Stavros Vourekas<sup>2</sup>; Constantinos A. Constantinides<sup>2</sup>; <sup>1</sup>*Academy of Athens - Biomedical Foundation, Athens, Greece*; <sup>2</sup>*Department of Urology, Athens University Medical S, Athens, Greece*; <sup>3</sup>*Department of Pathology, Athens University Medical, Athens, Greece*
- WP 484 **Cancer Biomarker Discovery via Low Molecular Weight Serum Proteome Profiling – Where is the Tumor?;** Paul Auger; Michael T. Davis; Chris Spahr; Scott D. Patterson; *Amgen, Inc., Thousand Oaks, CA*
- WP 485 **Protein Signature Predicts Response to Chemotherapy in Patients with High-Grade Glioma;** Michael L. Edgeworth<sup>1</sup>; Sarah A. Schwartz<sup>2</sup>; Sara L. Frappier<sup>1</sup>; Deming Mi<sup>1</sup>; Reid C. Thompson<sup>1</sup>; Richard M. Caprioli<sup>1</sup>; <sup>1</sup>*Vanderbilt University Medical Center, Nashville, TN*; <sup>2</sup>*Midwest Research Institute, Kansas City, MO*
- WP 486 **Differential Expression of Specific Proteolytic Albumin Fragments in Serum Samples of Prostate Carcinoma Patients with Metastases;** Lennard Dekker<sup>1</sup>; Peter Burgers<sup>1</sup>; Angeliqve van Rijswijk<sup>1</sup>; Mark Titulaer<sup>1</sup>; Rainer Bischoff<sup>2</sup>; Guido Jenster<sup>1</sup>; Chris Bangma<sup>1</sup>; Theo Luider<sup>1</sup>; <sup>1</sup>*Erasmus MC, Rotterdam, Netherlands*; <sup>2</sup>*University of Groningen, Groningen, Netherlands*
- WP 487 **Body Fluid Proteomics for Oral Cancer Biomarker Discovery;** Shen Hu; Martha Arellano-Garcia; Pinmanee Boonthung; Joseph Loo; David Wong; *University of California, Los Angeles, CA*
- WP 488 **Quantitative Proteomic Evaluation of Protein Abundance via Metabolic Labeling across Multiple Tissues in the *Apc<sup>Min</sup>* Mouse Model for Colorectal Cancer;** Edward L. Huttlin; Adrian D. Hegeman; Xiaodi Chen; Gregory A. Barrett-Wilt; Amy C. Harms; William F. Dove; Michael R. Sussman; *University of Wisconsin- Madison, Madison, WI*

POSTER SPACE

- WP 489 **Identification of Urinary Biomarkers for Bladder Cancer;** Lorne Budman<sup>1</sup>; Jordan Steinberg<sup>1</sup>; Robert Masse<sup>2</sup>; David Blank<sup>3</sup>; Hugh PJ Bennett<sup>4</sup>; Bernard F Gibbs<sup>1</sup>; <sup>1</sup>*Dept. of Urology, Montreal General Hospital, MUHC, Montreal, Canada*; <sup>2</sup>*MDS Pharma Services, Montreal, Canada*; <sup>3</sup>*Royal Victoria Hospital, MUHC, Montreal, Canada*; <sup>4</sup>*Sheldon Biotechnology Center, McGill University, Montreal, Canada*
- WP 490 **High Throughput Absolute Quantitation of the Expression and Modification Level of Proteins Involved in Signaling Pathways by iMASS<sup>2</sup> Assay;** Jian Jiang; Carol E. Parker; Katherine A. Hoadley; Charles M. Perou; Christoph H. Borchers; *UNC-Chapel Hill, Chapel Hill, NC*
- WP 491 **Proteomic Profiling of Bronchoalveolar Lavage Fluid (BALF) As a Biofluid for the Detection of Lung Cancer;** David E. Malehorn<sup>2</sup>; Talal El-Hefnawy<sup>1</sup>; Rodney J. Landreneau<sup>3</sup>; James D. Luketich<sup>3</sup>; Mai Sun<sup>1</sup>; Naftali Kaminski<sup>1</sup>; Ivan O. Rosas<sup>1</sup>; Jill M. Siegfried<sup>1</sup>; William L. Bigbee<sup>2</sup>; <sup>1</sup>*University of Pittsburgh, Pittsburgh, PA*; <sup>2</sup>*Clinical Proteomics Facility, Univ Pittsburgh Canc Inst, Pittsburgh, PA*; <sup>3</sup>*Heart, Lung, and Esophageal Surgery Institute, University of Pittsburgh, Pittsburgh PA*
- WP 492 **Indole-3-Carbinol Inhibits 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone Plus Benzo[a]pyrene-Induced Lung Tumorigenesis in A/J Mice and Modulates Carcinogen-Induced Alterations in Protein Expression;** Lorraine B. Anderson; Fekadu Kassie; Robyn Scherber; Nanxiong Yu; David Lahti; Pramod Upadhyaya; Stephen S Hecht; *University of Minnesota, Minneapolis, MN*
- WP 493 **Identification of Differentially Abundant Proteins in Cancer Murine Subjects using the Corra Label-Free LC-MS Proteomics Platform;** Simon Letarte<sup>1</sup>; Mi-Youn Brusniak<sup>1</sup>; Alexander Schmidt<sup>2</sup>; Hollis Lau<sup>1</sup>; David Campbell<sup>1</sup>; Lukas Mueller<sup>2</sup>; Olga Vitek<sup>3</sup>; James Eddes<sup>1</sup>; Julian Watts<sup>1</sup>; Ruedi Aebersold<sup>1</sup>; <sup>1</sup>*Institute for Systems Biology, Seattle, WA*; <sup>2</sup>*Institute for Molecular Systems Biology, Zurich, Switzerland*; <sup>3</sup>*Purdue University, Lafayette, IL*
- WP 494 **Characterization of Urinary Proteome with Bladder Cancer from a Blackfoot Disease Endemic Area in Taiwan;** Yu-Chang Tyan; How-Ran Guo; Lia-Beng Tan; Pao-Chi Liao; *National Cheng Kung University, Tainan, Taiwan*
- WP 495 **Probe the Altered Balance of Cysteine Proteases and Cystatins in Cancer using Quantitative Intact-Protein Analysis System (IPAS);** Hong Wang; Sharon Pitteri; Vitor Faca; Jason Struthers; Qing Zhang; Sam Hanash; *PHS, Fred Hutchinson Cancer Research Center, Seattle, WA*
- WP 496 **Differential Proteomic Characterization of B Cell Proliferative States: Analysis of Tumor-Specific and Proliferation-Specific Proteomes in Normal and Malignant B Cells;** Paul B. Romesser<sup>1</sup>; David H. Perlman<sup>2</sup>; Anupama Sinha<sup>3</sup>; Mark E. McComb<sup>2</sup>; Douglas V. Faller<sup>3</sup>; Catherine E. Costello<sup>2</sup>; Gerald V. Denis<sup>3</sup>; <sup>1</sup>*Boston University School of Medicine, Boston, MA*; <sup>2</sup>*BUSM Center for Biological Mass Spectrometry, Boston, MA*; <sup>3</sup>*BUSM Cancer Research Center, Boston, MA*
- WP 497 **A Combined Proteomic and Lipidomic Investigation of Glioblastoma Multiforme Cell Lines Treated with Wild-Type p53 and Cytotoxic Chemotherapy;** Carol

WEDNESDAY POSTERS

POSTER SPACE

- Nilsson<sup>1</sup>; Charles Conrad<sup>2</sup>; Mark R. Emmett<sup>1</sup>; Huan He<sup>1</sup>; Huimin Zhang<sup>1</sup>; Alan G. Marshall<sup>1</sup>; <sup>1</sup>Florida State University, Tallahassee, FL; <sup>2</sup>M.D. Anderson Cancer Center, Houston, TX
- WP 498 **Altered Glycolysis Pathways in Liver Cancer Revealed by Quantitative Proteomics**; Hevi Yang; Rong Wang; Mount Siani School of Medicine, New York, NY
- WP 499 **Identification of Candidate Biomarkers of Hepatocellular Carcinoma using a GeLCMS Based Tissue-to-Plasma Strategy**; Sheeno Thyparambil<sup>2</sup>; Richard C. Jones<sup>1</sup>; Ricky D. Edmondson<sup>1</sup>; <sup>1</sup>National Center for Toxicological Research, Jefferson, AR; <sup>2</sup>University of Arkansas for Medical Sciences, Little Rock, AR
- WP 500 **Activation of PI3K/AKT Pathway: A Proteomic Signature for Hepatic Metastasis of Colorectal Cancer**; Bin Kang<sup>1</sup>; Chunyi Hao<sup>2</sup>; Jun Zhang<sup>1</sup>; Rui Xing<sup>1</sup>; Siqi Liu<sup>1</sup>; Youyong Lu<sup>2</sup>; <sup>1</sup>Beijing Genomics Institute, CAS, Beijing, China; <sup>2</sup>Beijing Institute for Cancer Research, Beijing, China
- WP 501 **Differential Analysis of Proteasome Complexes and Proteomes from Human Leukemic Cells at Different Stages of Differentiation**; Mariette Matondo<sup>1</sup>; Sandrine Uttenweiler-Joseph<sup>1</sup>; Marie-Pierre Bousquet-Dubouch<sup>1</sup>; Stephane Manenti<sup>2</sup>; Bernard Monsarrat<sup>1</sup>; Odile Bulet-Schiltz<sup>1</sup>; <sup>1</sup>IPBS-CNRS UMR5089, Toulouse, France; <sup>2</sup>INSERM U563, Toulouse, France
- WP 502 **Novel Microfluidic Strategies for Proteomic Profiling of Cancerous Cell Extracts**; Iulia M. Lazar; Jenny M. Armenta; Abdulilah A. Dawoud; Xu Yang; Virginia Bioinformatics Institute, Blacksburg, VA

**PROTEOMICS: NEW & IMPROVED METHODS III  
503 - 522**

- WP 503 **A Quality Score for Product Ion Spectra in Proteomics: How to Teach an Expert System with Minimal Manual Input**; Thomas Koenig<sup>1</sup>; Bjoern H. Menze<sup>2</sup>; Marc Kirchner<sup>2</sup>; Kenneth C. Parker<sup>1</sup>; Flavio Monigatti<sup>1</sup>; Thomas Patterson<sup>1</sup>; Judith Steen<sup>1</sup>; Fred A. Hamprecht<sup>2</sup>; Hanno Steen<sup>1</sup>; <sup>1</sup>Children's Hospital Boston, Boston, MA; <sup>2</sup>Interdisciplinary Center for Scientific Computing, Heidelberg, Germany
- WP 504 **Proteomics as a Complementary Tool for Genome Annotation Thanks to MS/MS Data Searches in Unannotated Genome Sequences**; Christine Carapito<sup>1</sup>; Michael Heymann<sup>4</sup>; Sébastien Gallien<sup>1</sup>; Christine Schaeffer<sup>1</sup>; François Delalande<sup>1</sup>; Emmanuel Perrodou<sup>2</sup>; Odile Lecompte<sup>2</sup>; Caroline Deshayes<sup>3</sup>; Jean-Marc Reytrat<sup>3</sup>; Olivier Poch<sup>2</sup>; Daniel Muller<sup>4</sup>; Evelyne Turlin<sup>5</sup>; Marie-Claire Lett<sup>4</sup>; Philippe Bertin<sup>4</sup>; Alain Van Dorsselaer<sup>1</sup>; <sup>1</sup>IPHC-DSA, LSMBO, ULP-CNRS (UMR7178), Strasbourg, France; <sup>2</sup>IGBMC, Biologie et Génomique Structurales, Strasbourg, France; <sup>3</sup>Inserm-UMR 570, Paris, France; <sup>4</sup>Génétique moléculaire, Génomique, ULP-CNRS (UMR 7156), Strasbourg, France; <sup>5</sup>Institut Pasteur, URA 2171 CNRS, Paris, France
- WP 505 **Qcal- A Novel Standard for Assessing Instrument Conditions for Proteome Analysis**; Claire E Eyers<sup>1</sup>; Hannah Johnson<sup>1</sup>; Deborah M Simpson<sup>2</sup>; Stephen Wong<sup>1</sup>; Robert J Beynon<sup>2</sup>; Simon J Gaskell<sup>1</sup>; <sup>1</sup>University of Manchester, Manchester, United Kingdom; <sup>2</sup>University of Liverpool, Liverpool, United Kingdom
- WP 506 **Optimized Trap and Elute Strategies Combined with nanoLC/MS/MS and InfusionMS/MS for**

POSTER SPACE

- Identification of Proteins Separated by 2-Dimensional Gel Electrophoresis**; Simon J. Prosser<sup>1</sup>; Reinaldo Almeida<sup>2</sup>; Mark Allen<sup>2</sup>; Daniel J. Eikel<sup>1</sup>; Gary A. Schultz<sup>1</sup>; <sup>1</sup>Advion BioSystems, Ithaca, NY; <sup>2</sup>Advion Ltd, Norwich, UK
- WP 507 **Proteomic Analysis of Adipose Tissue using Detergent-Free Protein Extraction by Pressure Cycling and High Resolution Tandem Mass Spectrometry**; Alexander V. Lazarev<sup>1</sup>; Gary Smejkal<sup>1</sup>; Ilyana Romanovskiy<sup>1</sup>; Haiming Cao<sup>2</sup>; Gökhan Hotamisligil<sup>2</sup>; Alexander R. Ivanov<sup>2</sup>; <sup>1</sup>Pressure BioSciences, Inc., Woburn, MA; <sup>2</sup>Harvard School of Public Health, Boston, MA
- WP 508 **Screening of Functionalized Gold Nanoparticles (AuNPs) for their Ability to Function as Concentrating Agents for Peptides**; Benjamin Vanderpuije; Gang Han; Vincent M. Rotello; Richard W. Vachet; University of Massachusetts Amherst, Amherst, MA
- WP 509 **Using Size-Labels to Sort Phosphopeptides and Count Phosphates**; Xudong Yao; University of Connecticut, Storrs, CT
- WP 510 **Advantages of a New Proteomic Approach that Uses Accurate Mass Measurements, LC Retention Time, Isoelectric Point and Dual Enzymatic Digestion**; Konstantinos Petritis<sup>1</sup>; Anoop M. Mayampurath<sup>1</sup>; NavDeep Jaitly<sup>1</sup>; Matthew E. Monroe<sup>1</sup>; Nikola Tollic<sup>1</sup>; John Fjeldsted<sup>2,3</sup>; Bryan Miller<sup>2,3</sup>; Tom Vandegoor<sup>2,3</sup>; Patrick Hoerth<sup>2,3</sup>; Paul Goodley<sup>2,3</sup>; Richard D. Smith<sup>1</sup>; <sup>1</sup>Pacific Northwest Nat'l Laboratory, Richland, WA; <sup>2</sup>Agilent Technologies, Santa Clara, WA; <sup>3</sup>Agilent Technologies, Waldbronn, Germany
- WP 511 **Proteomic Experiments with an Ion Trap – Time-of-Flight (IT-TOF) MS Utilizing a Nanointerface**; Joy M. Ginter; Joseph P Fox; Nishimura Masayuki; Shimadzu Scientific Instruments, Columbia, MD
- WP 512 **Electrocapture-Based Sample Preparation for ESI-MS Analysis of Polypeptides**; Susanne Vollmer<sup>1</sup>; Mohammadreza Shariatgorji<sup>2</sup>; Tomas Bergman<sup>1</sup>; Leopold Ilag<sup>2</sup>; Hans Jörnvall<sup>1</sup>; Juan Astorga-Wells<sup>1</sup>; <sup>1</sup>Karolinska Institutet, Stockholm, Sweden; <sup>2</sup>Stockholm University, Stockholm, Sweden
- WP 513 **Simultaneous Quantitation of Several HIV Antiretroviral Drugs in Human Plasma by LC Tandem MS**; David Blank<sup>1</sup>; Brian Gilfix<sup>1</sup>; Marcos Di Falco<sup>2</sup>; Leonid Kriazhev<sup>2</sup>; Benoit Houle<sup>2</sup>; Mike Aguiar<sup>3</sup>; Hugh PJ Bennett<sup>3</sup>; Bernard F Gibbs<sup>3</sup>; <sup>1</sup>Royal Victoria Hospital, MUHC, McGill U, Montreal, Canada; <sup>2</sup>Genome Quebec, McGill University, Montreal, Canada; <sup>3</sup>Sheldon Biotechnology Center, McGill U, Montreal, Canada
- WP 514 **Decoy Strategy Applied to a Multi-Workflow Proteomic Approach**; Ulrike Schweiger-Hufnagel<sup>1</sup>; Peter Hufnagel<sup>1</sup>; Gerhard Körting<sup>2</sup>; Stephanie Hahner<sup>1</sup>; Markus Lubeck<sup>1</sup>; Detlev Suckau<sup>1</sup>; <sup>1</sup>Bruker Daltonik GmbH, Bremen, Germany; <sup>2</sup>Protagen AG, Dortmund, Germany
- WP 515 **Data Mining Synechocystis Shotgun Proteomics Experiments using a Robust Data Management System in Combination with a Novel Automated Analysis Pipeline**; Kevin Jones<sup>1</sup>; Phil Wright<sup>3</sup>; Mark Pitman<sup>2</sup>; <sup>1</sup>Genologics, Victoria, BC, Canada; <sup>2</sup>Proteome Software, Portland, OR; <sup>3</sup>University of Sheffield, Sheffield, UK

WEDNESDAY POSTERS

POSTER SPACE

- WP 516 **A Novel Fused-Core Silica Particle Based Nanobore Column for Ultra-High Performance Nano-electrospray Mass Spectrometry;** Robert Moody<sup>1</sup>; Gary A. Valaskovic<sup>2</sup>; Mike S. Lee<sup>3</sup>; <sup>1</sup>MAC-MOD Analytical, Chadds Ford, Pennsylvania; <sup>2</sup>New Objective, Inc., Woburn, MA; <sup>3</sup>Milestone Development Services, Newtown, PA
- WP 517 **Parallel Affinity-Based Sample Preparation for Rapid and Reproducible MS Based Protein Analysis;** Johan Ohman; Ola Ronn; Matilda Almstedt; *GE Healthcare Bio-Sciences AB, Uppsala, Sweden*
- WP 518 **Protein Identification by Retention-time Prediction, High Precision HPLC, and Fourier Transform Ion Cyclotron Resonance Mass Spectrometry;** J. Larry Campbell<sup>1</sup>; Sean C. Bendall<sup>1</sup>; Zheng Ye<sup>1</sup>; Paula P. Pittock<sup>1</sup>; Hongfeng Yin<sup>2</sup>; Kevin Killeen<sup>2</sup>; Reid Brennen<sup>2</sup>; Victor Spicer<sup>3</sup>; Oleg Krokhin<sup>3</sup>; Gilles A. Lajoie<sup>1</sup>; <sup>1</sup>University of Western Ontario, London, ON, Canada; <sup>2</sup>Agilent Laboratories, Santa Clara, CA.; <sup>3</sup>University of Manitoba, Winnipeg, MN, Canada
- WP 519 **Applications of Mascot and ProteinPilot Database Searching Tools for Enhanced Data Validation in Shotgun Proteomic Analysis of *Streptomyces scabies*;** Sheng Zhang<sup>1</sup>; David Schneider<sup>2</sup>; Madhumita Joshi<sup>3</sup>; Robert Sherwood<sup>1</sup>; Sabine Baumgart<sup>1</sup>; Rosemary Loria<sup>3</sup>; <sup>1</sup>Proteomics Core Facility, Cornell University, Ithaca, NY; <sup>2</sup>US Plant Soil and Nutrition Laboratory, Ithaca, NY; <sup>3</sup>Plant Pathology, Cornell University, Ithaca, NY
- WP 520 **Quantitation of Nitrosourea Anticancer Drugs and Their Derivatives by Liquid Chromatography with Tandem Mass Spectrometry;** Bertrand Jean-Claude<sup>1</sup>; Marcos Di Falco<sup>2</sup>; Leonid Kriazhev<sup>2</sup>; Benoit Houle<sup>2</sup>; David Blank<sup>1</sup>; Robert Masse<sup>3</sup>; Bernard F Gibbs<sup>4</sup>; Hugh PJ Bennett<sup>4</sup>; <sup>1</sup>Royal Victoria Hospital, MUHC, Montreal, Canada; <sup>2</sup>Genome Quebec, McGill University, Montreal, Canada; <sup>3</sup>MDS Pharma Services, Montreal, Canada; <sup>4</sup>Sheldon Biotechnology Center, McGill U, Montreal, Canada
- WP 521 **Optimizing Data Collection of Shotgun Proteomics Datasets on an LTQ-Orbitrap;** Stephane Houel; *University of Colorado at Boulder, Boulder, CO*
- WP 522 **Improved Peptide Isoelectric Point Prediction in Proteomics: Separating the Wheat from the Chaff;** James L. Stephenson, Jr.; Benjamin J. Cargile; Maureen K. Bunker; Joel R. Sevinsky; *Research Triangle Institute, Research Triangle Park, NC*

**PROTEOMICS: PHOSPHORYLATION  
523 - 538**

- WP 523 **Isolation and Identification of Phosphopeptides by Combining Strong Cationic Exchange and Hydrophilic Interaction Chromatography;** A. Jimmy Ytterberg; Rachel R. Ogorzalek Loo; Pinmanee Boontheung; Joseph A. Loo; *UCLA, Los Angeles, CA*
- WP 524 **Proteomics Characterization of Oncogenic Kinase Inhibitors;** Yi Zhang; Jianming Zhang; Nathanael S. Gray; Jarrod A. Marto; *Dana-Farber Cancer Institute, Boston, MA*
- WP 526 **Optimized Phosphoproteomic Analysis to Probe Differential Stimulation of Hippocampal Slices;** Mark O Collins; Marcelo P Coba; Lu Yu; Sajani Swamy; Seth G Grant; Jyoti S Choudhary; *The Wellcome Trust Sanger Institute, Hinxton, United Kingdom*

POSTER SPACE

- WP 527 **Developing Soluble Dendritic Polymers for Quantitative Phosphoproteome;** Minjie Guo; Judith Mikolajczak; Jacob Galan; W. A. Tao; *Purdue University, West Lafayette, IN*
- WP 528 **Tissue Proteomics: Characterization of Cyclin E1 and cyclin D1 Multiprotein Complexes Derived from Primary Tissue by LC-MS/MS;** Yasmine Ndassa-Colday<sup>1</sup>; Junko Odajima<sup>2</sup>; Frederic Bienvenu<sup>2</sup>; Manor Askenazi<sup>2</sup>; Siwanon Jirawatnotai<sup>2</sup>; Peter Sicinski<sup>2</sup>; Jarrod Marto<sup>2</sup>; <sup>1</sup>Harvard University, Cambridge, MA; <sup>2</sup>Dana-Farber Cancer Institute, Boston, MA
- WP 529 **Deciphering Subcellular Phosphoproteome using Fully-Automatic and Online Two-dimensional Liquid Chromatography Mass Spectrometry Based on pH Continuous Gradient Strong Anion Exchange;** Rong Zeng; Jie Dai; Su-Jun Li; Chia-Hui Shieh; Liu-Ya Tang; Song Nie; *Shanghai Institutes for Biological Sciences, Shanghai, China*
- WP 530 **Characterization of the Phosphorylation Events Involved in the Interleukin-1 beta Signalling Pathway in Pancreatic Beta Cells;** Kasper Engholm-Keller<sup>1</sup>; Flemming Pociot<sup>2</sup>; Allan E. Karlsen<sup>3</sup>; Martin R. Larsen<sup>1</sup>; <sup>1</sup>University of Southern Denmark, Odense, Denmark; <sup>2</sup>Steno Diabetes Center, Copenhagen, Denmark; <sup>3</sup>Novo Nordisk, Copenhagen, Denmark
- WP 531 **Analysis of Murine Embryonic Stem Cell Self-Renewal Pathways using Quantitative Phosphoproteomics;** Yu Lu<sup>1</sup>; Manor Askenazi<sup>1</sup>; Thorsten M. Schlaeger<sup>3</sup>; Yi Zhang<sup>1</sup>; John Chance Luckey<sup>2</sup>; Jarrod A. Marto<sup>1</sup>; <sup>1</sup>Dana-Farber Cancer Inst, Harvard Medical School, Boston, MA; <sup>2</sup>Brigham and Women's Hospital, HMS, Boston, MA; <sup>3</sup>Children's Hospital, Harvard Medical School, Boston, MA
- WP 532 **Fractionation of Phosphopeptides using Titanium Dioxide Chromatography with pH Gradient Elution;** Chong-Feng Xu; Thomas A. Neubert; *NYU Medical Center, New York, NY*
- WP 533 **A Proteomics Analysis of Phosphoproteins Regulated by PPP Family Ser/Thr Phosphatases;** Hemalatha Jayachandran<sup>1</sup>; Feng Yang<sup>2</sup>; Navdeep Jaitly<sup>3</sup>; Quanzhou Luo<sup>3</sup>; Marina Gristenko<sup>3</sup>; David J. Anderson<sup>3</sup>; Rui Zhang<sup>3</sup>; Samuel O. Purvine<sup>3</sup>; Ronald J. Moore<sup>3</sup>; Heather M. Mottaz<sup>3</sup>; Mary S. Lipton<sup>3</sup>; David G. Camp, II<sup>3</sup>; Harold R. Udseth<sup>3</sup>; Richard D. Smith<sup>3</sup>; Sandra Rossie<sup>1</sup>; <sup>1</sup>Department of Biochemistry, Purdue University, West Lafayette, IN; <sup>2</sup>Purdue Cancer Center, West Lafayette, IN; <sup>3</sup>Biological Sciences Division, PNNL, Richland, WA
- WP 534 **Highly Specific Enrichment for Phosphoproteom Profiling by On-Line Immobilized Metal Affinity Chromatography;** Chia-Feng Tsai<sup>1</sup>; Jia-Wei Dai<sup>2</sup>; Hsin-Hung Huang<sup>2</sup>; Yet-Ran Chen<sup>2</sup>; Yu-Ju Chen<sup>2</sup>; <sup>1</sup>National Taiwan Normal University, Taipei, Taiwan; <sup>2</sup>Institute of Chemistry, Academia Sinica, Taipei, Taiwan
- WP 535 **A Proteomic Screen for Host Cell Proteins Interacting with Tyrosine Phosphorylated Bacterial Toxins;** Matthias Selbach<sup>1</sup>; Patrick Guye<sup>2</sup>; Sabine Brandt<sup>3</sup>; Steffen Backert<sup>3</sup>; Christoph Dehio<sup>2</sup>; Matthias Mann<sup>1</sup>; <sup>1</sup>Max Planck Institute of Biochemistry, Munich, Germany; <sup>2</sup>Biozentrum, University of Basel, Basel, Switzerland; <sup>3</sup>University of Magdeburg, Magdeburg, Germany
- WP 536 **Towards Simplification of the Phosphoproteome : Hydrophilic-Interaction Chromatography (HILIC) as a Prefractionation Technique for Improving Global Phosphopeptide Isolation and Detection;** Dean

WEDNESDAY POSTERS

POSTER SPACE

- E. McNulty; Roland S. Annan; *GlaxoSmithKline, King of Prussia, PA*
- WP 537 **Identification of potential Mitogen Activated Protein Kinase Effectors in T-Cell Receptor Signaling by Phosphoproteomics**; Viveka Mayya; Deborah H. Lundgren; Sun-Il Hwang; David K. Han; *University of Connecticut Health Center, Farmington, CT*
- WP 538 **Probing the Signaling Pathways of Self-Renewal Through Comprehensive Phosphoproteome Analyses of Leukemic Hematopoietic Stem Cells**; Maria Marcantonio; Matthias Trost; Amelie Faubert; Christelle Pomies; Guy Sauvageau; Pierre Thibault; *IRIC, University of Montreal, Montreal, Canada*

**PROTEOMICS: QUANTITATION TECHNIQUES I**  
539 - 556

- WP 539 **Comparative Analysis of Non-Labeling and iTRAQ Based Methods for Protein Quantification in the MCF7 Cell Line Using 2DLC/MS/MS**; Jenny M Armenta<sup>1</sup>; Yang Xu<sup>1</sup>; Abdulilah A Dawoud<sup>1</sup>; Iulia M Lazar<sup>1</sup>; <sup>1</sup>*Virginia Bioinformatics Institute, Blacksburg, VA*; <sup>2</sup>*Virginia Polytechnic Institute and State University, Blacksburg, Virginia*
- WP 540 **A Quantitative Approach to LC-MS/MS Proteomic Analysis in a Complex Mixture Using Lysozyme as an Internal Standard**; Benjamin Mann; *Indiana University, Bloomington, IN*
- WP 541 **Development of a Microfluidic Chip Coupled with MALDI-TOF MS for Fast Sample Preparation in Proteomics**; Jeonghoon Lee; Harrison Musyimi; Steven A. Soper; Kermit K. Murray; *Louisiana State University, Baton Rouge, LA*
- WP 542 **Capillary Liquid Chromatography Combined with Nanospray Mass Spectrometry to Obtain Label Free Quantification Data**; Tony Tegeler; Kerry Bemis; Jinsam You; Jean-Pierre Wery; *INCAPS, Indianapolis, IN*
- WP 543 **ICPL Labeling in Functional Proteomics Experiments: Substrate Identification of the Extracellular Protease ADAMTS1 using SDS-PAGE LC-MS/MS**; Francesc Canals<sup>1</sup>; Nuria Colomé<sup>1</sup>; Joan J. Bech-Serra<sup>1</sup>; Juan Carlos Rodríguez-Manzaneque<sup>1</sup>; Wolfgang Jabs<sup>2</sup>; Markus Lubeck<sup>2</sup>; Carsten Baessmann<sup>2</sup>; Detlev Suckau<sup>2</sup>; <sup>1</sup>*Vall d'Hebron Uni. Hospital Research Institut, Barcelona, Spain*; <sup>2</sup>*Bruker Daltonik GmbH, Bremen, Germany*
- WP 544 **A Novel Stable Isotope Labeling for Quantitative Proteomics**; Xiaoyan Liu; Jianjun Zhai; Zhenyu Huang; Haining Zhu; *University of Kentucky, Lexington, KY*
- WP 545 **Targeted Quantitative Protein Analysis in Human Plasma Using High Resolution Selected Reaction Monitoring Assays on a Triple Quadrupole Mass Spectrometer**; Reiko Kiyonami; Ken Miller; *Thermo Fisher Scientific, San Jose, CA*
- WP 546 **Label-free Quantitation of Proteins in the Nucleus Accumens of Rats Following Administration of Growth Hormone**; John Flensburg<sup>1</sup>; Jenny Samskog<sup>1</sup>; Madeleine Le Grevès<sup>2</sup>; <sup>1</sup>*GE Healthcare, Uppsala, Sweden*; <sup>2</sup>*Uppsala University, Uppsala, Sweden*
- WP 547 **Evaluation of Label-free LC-MS/MS Quantitative Analysis for Plasma Biomarker Discovery and Validation using a Three-dimensional Protein Profiling Strategy**; Hsin-yao Tang<sup>1</sup>; Lynn A. Echan<sup>1</sup>; Tony Chang-Wong<sup>1</sup>; Cindy L. Chepanoske<sup>2</sup>; Eric Y. Chan<sup>2</sup>; Susana Guedes<sup>2</sup>; Andrew D. Keller<sup>2</sup>; Lee Weng<sup>2</sup>;

POSTER SPACE

- David W. Speicher<sup>1</sup>; <sup>1</sup>*The Wistar Institute, Philadelphia, PA*; <sup>2</sup>*Rosetta Biosoftware, Seattle, WA*
- WP 548 **A Proteomic Method for Characterizing Changes in Plasma Samples Incurred by Processing Methods**; Fanyu Meng; Yi Du; James Loderstedt; Robert E. Settlage; Nathan A. Yates; Ronald C. Hendrickson; *Merck Research Labs, Merck & Co., Inc, Rahway, NJ*
- WP 549 **Quantitative Proteomic Profiling of the Ubiquitin-Proteasome System in *in vitro* and *in vivo* Models of Neurodegenerative Disease**; Thomas A. Shaler<sup>1</sup>; Eric J. Bennett<sup>2</sup>; B. Woodman<sup>3</sup>; Gillian P. Bates<sup>3</sup>; Howard Schulman<sup>1</sup>; Ron R. Kopito<sup>2</sup>; Christopher H. Becker<sup>1</sup>; <sup>1</sup>*PPD, Menlo Park, CA*; <sup>2</sup>*Stanford University, Stanford, CA*; <sup>3</sup>*GKT School of Medicine, King's College, London, UK*
- WP 550 **Absolute Quantification of the Uridine Diphosphate Glucuronosyl Transferase (UGT) Enzyme Isoforms 1A1 and 1A6 By Tandem LC-MS**; John K Fallon<sup>1</sup>; David E Harbour<sup>1</sup>; Saber H Maleki<sup>2</sup>; Philip C Smith<sup>1</sup>; <sup>1</sup>*School of Pharmacy, University of North Carolina, Chapel Hill, NC 27599*; <sup>2</sup>*Panacos Pharmaceuticals Inc., Gaithersburg, MD 20877*
- WP 551 **Multiplex Labeling and Mass Spectrometry Analysis Reveals Differential Protein Expression of Human Skin Fibroblasts in Response to Different Ionizing Radiations**; Yu-chun Du<sup>1</sup>; Tiao Zhang<sup>1</sup>; Sheng Gu<sup>2</sup>; Xian Chen<sup>2</sup>; <sup>1</sup>*Los Alamos National Laboratory, Los Alamos, NM*; <sup>2</sup>*University of North Carolina at Chapel Hill, Chapel Hill, NC*; <sup>3</sup>*Biogen Idec, Cambridge, MA*
- WP 552 **Comparing Protein and Peptide Identifications from MARS-Depleted Mouse Plasma using Reversed-Phase LC-MS/MS with and without Prior Strong Cation Exchange Fractionation**; Regine Schoenherr<sup>1</sup>; Jeffrey Whiteaker<sup>1</sup>; Li-chia Feng<sup>1</sup>; Jeffrey Patterson<sup>1</sup>; John Keane<sup>1</sup>; Pei Wang<sup>1</sup>; Lei Zhao<sup>1</sup>; Travis Lorentzen<sup>1</sup>; Brian Piening<sup>1</sup>; Karen Spratt<sup>1</sup>; Y. Heidi Zhang<sup>2</sup>; Amanda Paulovich<sup>1</sup>; <sup>1</sup>*Fred Hutchinson Cancer Research Center, Seattle, WA*; <sup>2</sup>*Amgen, Thousand Oaks, CA*
- WP 553 **Improved Data Analysis Coverage through the Use of FTMS, ITMS, and ITMS/MS: Label-Free Analysis of HIV-1 Infection Model**; Eric Chan<sup>1</sup>; Jennifer N Sutton<sup>2</sup>; Lee Weng<sup>3</sup>; Amol Prakash<sup>2</sup>; Leo E Bonilla<sup>2</sup>; Michael G Katze<sup>1</sup>; <sup>1</sup>*University of Washington, Seattle, WA*; <sup>2</sup>*Thermo BRIMS Center, Cambridge, MA*; <sup>3</sup>*Rosetta Biosoftware, Seattle, WA*
- WP 554 **Optimization of iTRAQ Quantitation for Differential Proteomics in Mice**; Linhong Jing<sup>1</sup>; Li Zhou<sup>1</sup>; Maria E. Warren<sup>1</sup>; Yan Wu<sup>1</sup>; Nedyalka Dicheva<sup>1</sup>; David Robinette<sup>1</sup>; Viorel Mocanu<sup>1</sup>; Carol E. Parker<sup>1</sup>; David Seo<sup>2</sup>; Geoff Ginsberg<sup>2</sup>; Debra Schwinn<sup>2</sup>; Xian Chen<sup>1</sup>; <sup>1</sup>*University of North Carolina, Chapel Hill, NC*; <sup>2</sup>*Duke University, Durham, NC*
- WP 555 **Label-free Proteomics: A Robust Tool for Quantitative Proteome Analysis**; Barbara Sitek<sup>1</sup>; Daniel Chamrad<sup>2</sup>; Marina Behrens<sup>3</sup>; Klaus Jung<sup>1</sup>; Gereon Poschmann<sup>1</sup>; Martin Blüggel<sup>2</sup>; Carsten Bäßmann<sup>3</sup>; Helmut E. Meyer<sup>1</sup>; Kai Stühler<sup>1</sup>; <sup>1</sup>*Medizinisches Proteom-Center, Bochum, Germany*; <sup>2</sup>*Protagen AG, Dortmund, Germany*; <sup>3</sup>*Bruker Daltonik GmbH, Bremen, Germany*
- WP 556 **Quantitative Proteomics of Bronchoalveolar Lavage Fluid using Off Gel Electrophoresis and LC/Quadrupole Time of Flight MS**; Alexander B. Schilling<sup>1</sup>; Tina Purnat<sup>1</sup>; Manu Jain<sup>2</sup>; Simon Lin<sup>2</sup>; Christine Miller<sup>3</sup>; Dayin Lin<sup>3</sup>; <sup>1</sup>*University of Illinois at*



WEDNESDAY POSTERS

POSTER SPACE

Chicago, Chicago, IL; <sup>2</sup>Northwestern University, Evanston, IL; <sup>3</sup>Agilent Technologies Inc., Santa Clara, CA

QUANTITATION: METHODS & APPLICATIONS  
557 - 572

- WP 557 **A Ring Trial Test of Nicotine Uptake Determinations by Multiple Laboratories;** Gary D. Byrd; Michael W. Ogden; *R.J. Reynolds Tobacco Co., Winston-Salem, NC*
- WP 558 **Choice of Regression Type to Cover Extended Dynamic Range in LC-MS and LC-MS/MS Bioanalysis: Linear With-Dilution versus Quadratic No-Dilution;** Troy Bradley; Cynthia S. Côté; Jean-Nicholas Mess; Sylvain Latour; Dominique Guillet; Fabio Garofolo; *Algorithme Pharma Inc., Laval (Montreal), QC, Canada*
- WP 559 **Post-Column Infusion Profile Convolution: A Robust and Universal Method for Quantifying Ionization Matrix Effects;** Zhenmin Liang; Sazzad Hussain; Surendra Bansal; *Hoffmann-La Roche, Inc., Nutley, NJ*
- WP 560 **Trace Level Determination of Trichloroethylene in Biological Samples by Headspace Solid Phase Microextraction Gas Chromatography-Mass Spectrometry;** Yongzhen Liu; James V Bruckner; Michael G Bartlett; *University of Georgia, Athens, GA*
- WP 561 **Trace Analysis of Polymers in Protein Products Alternative LC-MS/MS (SRM) Approach;** Mandana Keykhosravi; Amareth Lim; Jeff Patrick; Bryan Harmon; *Eli Lilly And Company, Indianapolis, IN*
- WP 562 **Matrix Effects in Quantitative LC/MS Methods: The Effect of Co-injecting Various Matrix Amounts;** David N. Heller; Hemakanthi de Alwis; *FDA/CVM, Laurel, MD*
- WP 563 **A Comparison of Matrix Effects with Standard and Modified ESI Probes;** Steve Bajic; Gareth Hammond; *Waters Corporation, Manchester, United Kingdom*
- WP 564 **Quantitative Assay of Sudan Azo-Dyes in Food Matrixes by Liquid Chromatography Tandem Mass Spectrometry and Isotope Dilution;** Fabio Mazzotti; Leonardo Di Donna; Loredana Maiuolo; Anna Napoli; Raffaele Salerno; Giovanni Sindona; *Università della Calabria Dipartimento di Chimica, Rende, Italy*
- WP 565 **The Case for a Gain-Calibrated Detection System;** Jeff Kernan; Jim Foote; Tom Doherty; *Agilent Technologies, Santa Clara, CA*
- WP 566 **Exploiting Analyte-Induced Ion Suppression of a Co-eluting Internal Standard to Enhance Calibration Curve Linearity;** Garnet McRae; Miles Webb; Nishi Gill; Rahul Vohra; *Painceptor Pharma Corp., Ottawa, Canada*
- WP 567 **Measurement of Water Soluble B Vitamins in Infant Formula by Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS);** Min Huang; Doug Winters; *Covance Laboratories, Inc, Madison, WI*
- WP 568 **MALDI-TOF Quantitative Analysis on Binary Mixtures of Fullerenes and Polycyclic Aromatic Hydrocarbons;** Anna Cristadoro; Hans Joachim Räder; Klaus Müllen; *Max Planck Institute for Polymer Research, Mainz, Germany*
- WP 569 **A Novel Quantitation Method for Increasing the Sensitivity and Robustness of an LC/MS/MS Bioanalytical Assay;** Eryn K. Snowden-Rawley<sup>1</sup>; Mauro Aiello, Ph.D. <sup>2,1</sup> *Applied Biosystems, Framingham, MA; <sup>2</sup>Applied Biosystems/MDS Sciex, Concord, Ontario, Canada*

POSTER SPACE

- WP 570 **Rapid Full-scan TOF Quantitation Methods Utilizing the Improved Dynamic Range of a Qtof Mass Spectrometer;** April L. Smith; Jeffrey D. Miller; Anthony J. Romanelli; *Applied Biosystems, Framingham, MA*
- WP 571 **Matrix Effects in the Analysis of Basic Compounds in Biomatrices by ES+ LC/MS/MS as a Function of Mobile Phase pH;** Liming Peng; Tivadar Farkas; Lawrence Loo; *Phenomenex Inc., Torrance, CA*
- WP 572 **Simultaneous Quantitation of Carotenoids by LC-MS/MS in Foods and Supplements;** Miwako Kondo<sup>1</sup>; Li Yang<sup>2</sup>; Zijia Zhang<sup>2</sup>; Zhengtao Wang<sup>2</sup>; Xianguo Zhao<sup>1</sup>; *<sup>1</sup>Brunswick Laboratories, Norton, MA; <sup>2</sup>R&D Centre for Standardization of Chinese Medicine, Shanghai, P.R. China*

## THURSDAY POSTERS

### POSTER SPACE

7:30 – 8:00 am..... All Thursday posters should be set  
 10:15 am – 2:30 pm... All Thursday poster authors should be present  
 11:45 am – 12:15 pm..... Lunch break for odd-numbered posters  
 12:15 – 12:45 pm ..... Lunch break for even-numbered posters  
 3:30 pm ..... Remove all Thursday posters

APPI.....	004 - 011
Instrumentation: Ion Sources II.....	012 - 028
MALDI Sample Preparation II.....	029 - 044
Instrumentation: Quadrupoles and Ion Traps II.....	045 - 060
Ion Activations Dissociation: Applications.....	061 - 075
Peptides: Fragmentation and Sequencing.....	076 - 091
Imaging: Small Molecules.....	092 - 107
Agriculture.....	108 - 124
Environmental Analysis.....	125 - 141
Homeland Security.....	142 - 159
Computer Applications.....	160 - 173
LC/MS: Nano.....	174 - 187
LC/MS: Sample Preparations: Biological Matrix.....	188 - 212
High Throughput Analysis / Robotics II.....	213 - 228
GCMS.....	229 - 247
Bioinformatics: Miscellaneous.....	248 - 273
Carbohydrates and Oligosaccharides IV.....	274 - 288
Drug Metabolism: Quantitation.....	289 - 306
Lipids: Oxidized Biochemistry and Steroids.....	307 - 324
Nucleic Acids II.....	325 - 339
Natural Products II.....	340 - 353
Small Molecules: General.....	354 - 380
Proteins: Glycoproteins II.....	381 - 402
Proteins: Phosphorylation.....	403 - 421
Proteins: Phospho Proteins.....	422 - 442
Proteins: Membrane Methods.....	443 - 453
Proteomics: Cancer Biomarkers II.....	454 - 472
Proteomics: Labeling & Affinity.....	473 - 485
Proteomics: Lower Organisms.....	486 - 491
Proteomics: Quantitation Techniques II.....	492 - 518 and 533
Proteomics: Biochemistry (Gel Based).....	519 - 532
Proteomics: Sample Preparation and Methods (Gel Based).....	534 - 544

<b>APPI 004 - 011</b>
---------------------------

ThP 004	<b>Role of Non-Ionizing Photon Absorption in the Observed Mass Spectra Produced by an Atmospheric Pressure Photoionization – LCMS Source;</b> <u>Rob O'Brien</u> <sup>1</sup> ; Amanda Furgeson <sup>1</sup> ; David Arkinstall <sup>1</sup> ; <sup>1</sup> UBC Okanagan, Kelowna, Canada; <sup>2</sup> Okanagan Regional Chemical Analysis Centre, Kelowna, Canada
ThP 005	<b>Electron Capture-Atmospheric Pressure Photoionization Mass Spectrometry: Analysis of Fullerenes, Perfluorinated Compounds, and Pentafluorobenzyl Derivatives;</b> <u>Liguo Song</u> ; Amber D Wellman; Huifang Yao; Jamie Adcock; <i>University of Tennessee, Knoxville, TN</i>
ThP 006	<b>Cluster Size-Distributions at Liquid Surface and In Vapor Observed for Pure Alcohols and Alkanes by Liquid Ionization Mass Spectrometry;</b> <u>Masahiko</u>

### POSTER SPACE

ThP 007	<u>Tsuchiya</u> <sup>1</sup> ; Yasuo Shida <sup>2</sup> ; Haruhiko Fukaya <sup>2</sup> ; Masaki Shinoyama <sup>3</sup> ; Shoichi Okouchi <sup>3</sup> ; <sup>1</sup> <i>Yokohama National University, Yokohama, Japan</i> ; <sup>2</sup> <i>Toyaku University, Tokyo, Japan</i> ; <sup>3</sup> <i>Hosei University, Tokyo, Japan</i>
ThP 008	<b>Collisionally-Induced Dissociation of Propionitrile under APPI Mass Spectrometry: Evidence of an Intramolecular 1,3-Hydrogen Shift and Hydrogen Migration;</b> Patrick Jeanville <sup>2</sup> ; Lauren Elizabeth J-Rivera <sup>2</sup> ; Colizza Kevin <sup>1</sup> ; <u>Amin Kamel</u> <sup>1</sup> ; <sup>1</sup> <i>Pfizer, Inc., Groton, CT</i> ; <sup>2</sup> <i>Thermo Electron Corporation, West Palm Beach, FL</i>
ThP 009	<b>Determination of the Distribution of Ion Acceptance (DIA) of Atmospheric Pressure Ionization Sources;</b> <u>Walter Wissdorf</u> ; Matthias Lorenz; Klaus J Brockmann; Oliver J Schmitz; Sigmar Gaeb; Thorsten Benter; <i>University of Wuppertal, Wuppertal, Germany</i>
ThP 010	<b>Quantitation of 8-Hydroxydeoxyguanosine in DNA by Liquid Chromatography-Positive Atmospheric Pressure Photoionization Tandem Mass Spectrometry;</b> <u>Fagen Zhang</u> ; William T. Stott; Amy J. Clark; Joy J. Grundy; Melissa R. Schisler; B. Bhaskar Gollapudi; Michael J. Bartels; <i>The Dow Chemical Company, Midland, MI</i>
ThP 011	<b>Atmospheric Pressure Photoionization of Peptides;</b> <u>Alexandre J. Giuliani</u> <sup>1</sup> ; Aicha Bagag <sup>2</sup> ; Olivier Laprevote <sup>2</sup> ; <sup>1</sup> <i>Synchrotron Soleil, Gif-sur-Yvette, France</i> ; <sup>2</sup> <i>CNRS-ICSN, Gif-sur-Yvette, France</i>
ThP 012	<b>Comparison of Atmospheric Pressure Ionization (API) Techniques for the Analysis of Organophosphorus Compounds;</b> <u>Peter L Kelsey</u> ; Bart A O'Brien; <i>Midwest Research Institute, Kansas City, MO</i>
<b>INSTRUMENTATION: ION SOURCES II 012 - 028</b>	
ThP 012	<b>Calibrant and Reagent Ion Introduction for Mass Spectrometry;</b> <u>Bradley B. Schneider</u> ; Thomas R. Covey; <i>MDS Sciex, Concord, Canada</i>
ThP 013	<b>Detecting Compounds of Dissimilar Ionization Using Dual Source Ionization for Increased Throughput;</b> <u>Holly Shackman</u> ; <i>Shimadzu Scientific, Columbia, MD</i>
ThP 014	<b>Electrospray Ionization Hybridized with Laser Desorption, Pyrolysis, Thermal Evaporation, and Pneumatic Nebulization for Gaseous, Microdroplet, Liquid, and Solid Sample Analyses;</b> Lian-Chun Chen; Cha-Chun Liou; Min-Zong Huang; <u>Jentaie Shiea</u> ; <i>National Sun Yat-Sen University, Kaohsiung, Taiwan</i>
ThP 015	<b>Asymmetric Steady-State Dual Nanospray Ion Source: A New Method to Introduce a Second Nanospray Ion Beam without Signal Loss;</b> <u>Nicolas L. Young</u> <sup>1</sup> ; Micheal C. Sisto <sup>2</sup> ; Meggie N. Young <sup>3</sup> ; Patrick G. Grant <sup>1</sup> ; David W. Killilea <sup>4</sup> ; LaTasha LaMotte <sup>2</sup> ; Kuang Jen J. Wu <sup>1</sup> ; Carlito B. Lebrilla <sup>1</sup> ; <sup>1</sup> <i>Lawrence Livermore National Laboratory, Livermore, CA</i> ; <sup>2</sup> <i>University of California, Davis, Davis, CA</i> ; <sup>3</sup> <i>Drexel University, College of Medicine, Philadelphia, PA</i> ; <sup>4</sup> <i>Children's Hospital Oakland Research Institute, Oakland, CA</i>
ThP 016	<b>Complementing Novel Ionization Techniques with Voltage-Assisted Hydrodynamic Devices by Optimizing Physicochemical Parameters to Efficiently Sample Biological Specimens;</b> <u>Robert B. Dixon</u> ; Xudong Xiao; Jack R. Edwards; Adam M. Hawkrige; David C. Muddiman; <i>North Carolina State University, Raleigh NC, NC</i>
ThP 017	<b>Evaluation of Taylor-Cone Stability and Spray-Mode Dynamics using Fused-Silica Nanospray Emitters</b>

THURSDAY POSTERS

POSTER SPACE

- with **Hydrophobic Coatings**; Jeffrey Wynn; Christopher J. Toher; Gary A. Valaskovic; *New Objective Inc, Woburn, MA*
- ThP 018 **Unique Fragmentation Pathways Observed in Corona Discharge Electrochemical/Electrospray Ionization (ECI/ESI) MS**; John Lloyd<sup>1</sup>; Sonja Hess<sup>2</sup>; <sup>1</sup>NIH, Bethesda, MD; <sup>2</sup>California Institute of Technology, Pasadena, CA
- ThP 019 **Infrared Particle Ablation/Ultraviolet Matrix-Assisted Laser Desorption Ionization Mass Spectrometry**; Fan Huang; Xing Fan; Kermit K. Murray; *LSU, Baton Rouge, LA*
- ThP 020 **Selective Self-Generating Novel Ion Productin Techniques for Atomspheric Pressure Mass Spectrometry**; Paul C. Goodley; *GRE, Santa Rosa, CA*
- ThP 021 **Digitized Nanobore LC-MS: An Automated Control System with Emitter Divert for Column-Switching**; Mike S. Lee<sup>1</sup>; Gary A. Valaskovic<sup>2</sup>; <sup>1</sup>Milestone Development Services, Newtown, PA; <sup>2</sup>New Objective, Inc., Woburn, MA
- ThP 022 **Symmetric and Asymmetric Fission of Electrosprayed Water Droplets**; Lloyd Zilch; Josh T. Maze; Martin F. Jarrold; *Indiana Univeristy, Bloomington, IN*
- ThP 023 **Automation and Optimization of a Dual Stage Ion Funnel Electrospray Ionization Source for Whole Protein Identification**; Michael L. Easterling<sup>1</sup>; Jennifer S. Cobb<sup>2</sup>; Christian B. Berg<sup>1</sup>; Christopher J. Thompson<sup>1</sup>; Jeffrey N. Agar<sup>2</sup>; <sup>1</sup>Bruker Daltonics, Inc., Billerica, MA; <sup>2</sup>Brandeis University, Waltham, MA
- ThP 024 **Demonstration of a Dual ESI/APPI Ion Source for Simultaneous Analysis of Drug, Substrate and Their Bound Complexes**; Luke C. Short; Sheng-Suan Cai; Jack A. Syage; *Syagen Technology, Inc., Tustin, CA*
- ThP 025 **Controlling Charge on Trapped Drops**; Ryan T. Hilger; Michael S. Westphall; Lloyd M. Smith; *University of Wisconsin-Madison, Madison, WI*
- ThP 026 **CE-ESI/MS with Miniaturized and Functionalized Nanoelectrospray Emitters**; Petr Kusý; Jana Krenková; Jakub Grym; Karel Klepárník; František Foret; *Institute of Analytical Chemistry, Academy of Scie, Brno, Czech Republic*
- ThP 027 **Application of a Laser Diode Thermal Desorption (LDTD) Ion Source for Mass Spectrometry in a Drug Discovery Environment**; Kevin P. Bateman<sup>1</sup>; Jin Wu<sup>1</sup>; Sebastien Gagne<sup>1</sup>; Pierre Picard<sup>2</sup>; Sylvain Letarte<sup>2</sup>; <sup>1</sup>Merck Frosst Canada, Montreal, Canada; <sup>2</sup>Phytronix, Quebec, Canada
- ThP 028 **Using Electrospray-Assisted Laser Desorption Ionization Mass Spectrometry to Detect Proteins and Biochemical Compounds Separated on Microchip and Two-Dimensional TLC Plate**; Shu-Yao Lin; Jentaie Shiea; *National Sun Yat-Sen University, Kaohsiung, Taiwan*

MALDI SAMPLE PREPARATION II  
029 - 044

- ThP 029 **Improving Intensity and Sensitivity of MALDI Signals by Using Nanoliter Volume Spots**; Tingting Tu<sup>1</sup>; Andrew D. Sauter<sup>2</sup>; Michael L. Gross<sup>1</sup>; <sup>1</sup>Washington University in St. Louis, Saint Louis, MO; <sup>2</sup>Nanoliter, LLC, Henderson, NV
- ThP 030 **Sample Preparation: Making, Directing Nanoliters to Targets from Dispensers, Syringes and LC Columns using Electric Fields - Induction Based Fluidics**;

POSTER SPACE

- Andrew D. Sauter III; Andrew D. Sauter, Jr; *Nanoliter, LLC, Henderson, NV*
- ThP 031 **Improving Monoclonal Antibody and SCFv Protein Characterization by Obtaining Complementary MALDI-TOF-MS Spectra from a Single Tryptic Digest**; Adam W. Lucka<sup>12</sup>; Rekha Patel<sup>12</sup>; Bruce A. Andrien<sup>12</sup>; <sup>1</sup>Alexion Pharmaceuticals, Cheshire, CT; <sup>2</sup>Alexion Pharmaceuticals, Cheshire, CT
- ThP 032 **Ablation of Chrysene from Different Matrix Systems using 266nm UV-MALDI**; Dirk Walbrodt; Tassilo Muskat; Juergen Grotemeyer; *Inst. f. Phys. Chem der CAU zu Kiel, Kiel, Germany*
- ThP 033 **Simple and Effective Methods to Increase the Surface Sapacity for On- Probe Affinity Capture MALDI-MS**; Zaneer, M Segu; Joseph, C Mathai; Gary, R Kinsel; *Southern Illinois University, Carbondale, IL*
- ThP 034 **EC-Affinity&trade; MALDI Biochips for Immunoaffinity Mass Spectrometry by MALDI-TOF-MS**; Mark Stolowitz<sup>1</sup>; Paul Lampe<sup>2</sup>; <sup>1</sup>Stratos Biosystems LLC, Seattle, WA; <sup>2</sup>Fred Hutchinson Cancer Research Center, Seattle, WA
- ThP 035 **Optimized Enrichment and Detection Methodologies for the Study of Phosphopeptides of the Epidermal Growth Factor Receptor**; Amanuel Y Kehasse<sup>1</sup>; David H. Perlman<sup>2</sup>; Mark E. McComb<sup>2</sup>; Ilene Boucher<sup>3</sup>; Vickery T Randall<sup>3</sup>; Catherine E. Costello<sup>1</sup>; <sup>1</sup>BUSM, Center for Biological Mass Spectrometry, Boston, MA; <sup>2</sup>BUSM, Cardiovascular Proteomics Center, Boston, MA; <sup>3</sup>BUSM, Department of Biochemistry, Boston, MA
- ThP 036 **A New Desalting Approach for MALDI MS Analysis of Oligonucleotides**; Wei-Yu Chen; Yu-Chie Chen; *Dept Applied Chemistry, National Chiao Tung Univ., Hsinchu, Taiwan*
- ThP 037 **Functionalized MALDI Surface for Specific Detection of Glycopeptides**; Mohammed Kajjout; Caroline Tokarski; Séverine Le Gac; Christian Rolando; *Univ. des Science/Tech de Lille, Villeneuve d'Ascq, France*
- ThP 038 **Use of High-Capacity Polymer Brushes Immobilized on MALDI Plates and Magnetic Beads for the Analysis of Phosphopeptides by MS**; Jamie D. Dunn; Fei Xu; Gavin E. Reid; Merlin L. Bruening; *Michigan State University, East Lansing, MI*
- ThP 039 **Serine Enhances and Improves Peptide Ion Signals in MALDI MS**; Mitsuo Takayama; Takashi Nishikaze; *Yokohama City University, Yokohama, Japan*
- ThP 040 **Investigation of Liquid MALDI and Optimization for Instrument Tuning and Quantitative Measurements**; Magnus Palmblad; Mark Towers; Rainer Cramer; *The University of Reading, Reading, UK*
- ThP 041 **Nanoprobe-Based Affinity Mass Spectrometry for Multiplexed Immunoassay in Human Plasma**; Kai-Yi Wang<sup>1</sup>; Li-Shing Huang<sup>1</sup>; Po-Chiao Lin<sup>2</sup>; Shu-Hua Chen<sup>1</sup>; Hsin-Kai Liao<sup>1</sup>; Chun-Cheng Lin<sup>3</sup>; Yu-Ju Chen<sup>1</sup>; <sup>1</sup>Institute of Chemistry, Academia Sinica, Taipei, Taiwan; <sup>2</sup>CBMB, TIGP, Academia Sinica, Taipei, Taiwan; <sup>3</sup>National Tsing-Hua University, Hsinchu, Taiwan
- ThP 042 **Functionalized Magnetic Nanoparticles for Small Molecule Isolation, Identification and Quantification using MALDI-TOF Mass Spectrometry**; Mei-chun Tseng<sup>1</sup>; Po-Chiao Lin<sup>2</sup>; An-Kai Su<sup>1</sup>; Yu-Ju Chen<sup>1</sup>; Chun-Cheng Lin<sup>2</sup>; <sup>1</sup>Institue of Chemistry, Academia Sinica, Taipei, Taiwan; <sup>2</sup>Institue of Chemistry, Tsing Hua University, Hsinchu, Taiwan

THURSDAY POSTERS

POSTER SPACE

- ThP 043 **Plastic MALDI Chips (pMALDI): Enhancing Protein Analysis using High-Density Polymer Micro Array in Combination with MALDI-TOF/MS;** Alfredo J. Ibáñez; Vincentius A. Halim; Rohit Shroff; Alexander Muck; Aleš Svatoš; *Max Planck Institute for Chemical Ecology, Jena, Germany*
- ThP 044 **Application of Non-Fouling Surfaces in MALDI Mass Spectrometry;** Lijuan Peng; Gary R. Kinsel; *Southern Illinois University, Carbondale, IL*

**INSTRUMENTATION: QUADRUPOLES & ION TRAPS II  
045 - 060**

- ThP 045 **Simulations of the Field Distributions and the Performance of Printed Circuit Board Ion Trap Mass Spectrometer (PCB IT-MS);** Chuan-Fan Ding; Gongyu Jiang; Igor Filippov; Chan Luo; Peng Yang; Xiaoxu Li; *Fudan University, Shanghai, CHINA*
- ThP 046 **Ion-Ion Reactions using a Home-Built, Research-Grade Linear Ion Trap Mass Spectrometer;** Matthew W. Soyk<sup>1</sup>; Qin Zhao<sup>1</sup>; Gregg M. Schieffer<sup>1</sup>; R.S. Houk<sup>1</sup>; Ethan R. Badman<sup>2</sup>; <sup>1</sup>*Iowa State University, Ames, IA*; <sup>2</sup>*Hoffmann-La Roche Inc., Nutley, NJ*
- ThP 047 **On Line Aerosol MALDI Mass Spectrometer using Digital Quadrupole Ion Trap;** Hideya Koizumi; Peter T. A. Reilly; William A. Harris; William B. Whitten; *Oak Ridge National Laboratory, Oak Ridge, TN*
- ThP 048 **Microscopy-Based Mass Measurement of a Single Whole Virus in a Cylindrical Ion Trap;** Huan-cheng Chang; *Institute of Atomic & Molecular Sciences, Taipei, TAIWAN*
- ThP 049 **A Faster Method of Tandem Mass Spectrometry for Forensic, Clinical and Biological Applications;** Glen Jackson; Unige A. Laskay; Carolyn M. Zimmermann; Olivier L. Collin; *Ohio University, Athens, OH*
- ThP 050 **Multi-Source Linear Ion Trap for Ion/Ion Reactions and Multiple Activation Methods;** David E. Erickson<sup>1</sup>; Jason M. Hogan<sup>2</sup>; Chris Doerge<sup>1</sup>; Min He<sup>3</sup>; Scott A. McLuckey<sup>1</sup>; <sup>1</sup>*Purdue University, West Lafayette, IN*; <sup>2</sup>*Fred Hutchinson Cancer Research Center, Seattle, WA*; <sup>3</sup>*Thermo Electron, San Jose, CA*
- ThP 051 **Characterisation of Mass Selective Axial Ejection from a Linear Ion Trap with Superimposed Axial Quadratic DC Potential;** Martin Green; Garry Scott; Robert Bateman; *Waters Corporation, Manchester, United Kingdom*
- ThP 052 **Mass Selective Axial Ejection by Controllable DC Field for Effective Extraction;** Masuyuki Sugiyama; Hideki Hasegawa; Yuichiro Hashimoto; *Hitachi, Ltd., Central Research Laboratory, Tokyo, JAPAN*
- ThP 053 **Ion Guide and Quadrupole Mass Filters Employing a Digitally Controlled Waveform;** David J Rousell; Roger Giles; *Shimadzu Research Laboratory (Europe), Manchester, United Kingdom*
- ThP 054 **Miniature Cylindrical Ion Trap with Transparent Endcap Electrodes for Single Nanoparticle Mass Measurement;** Zongxiu Nie; *Institute of Atomic & Molecular Sciences, Taipei, Taiwan*
- ThP 055 **Fragmentation Efficiency and Ion Excitation Frequencies in a Linear Quadrupole Ion Trap with an 8% Added Hexapole Field;** Ori Granot; D. J. Douglas; *The University of British Columbia, Vancouver, BC, Canada*
- ThP 056 **Development of Proton Transfer Reaction - Linear Ion Trap (PTR-LIT) Mass Spectrometry for the Quantification Of Isobaric Volatile Organic Compounds;** Levi H Mielke<sup>1</sup>; David E Erickson<sup>1</sup>; Scott

POSTER SPACE

- A McLuckey<sup>1</sup>; Armin Wisthaler<sup>2</sup>; Armin Hansel<sup>2</sup>; Christopher H Doerge<sup>1</sup>; Paul B Shepson<sup>1</sup>; <sup>1</sup>*Purdue University, West Lafayette, IN*; <sup>2</sup>*Universität Innsbruck, Innsbruck, Austria*
- ThP 057 **Mass Analysis with Linear Quadrupole with Added Hexapole Fields: Experiments and Simulations;** Zilan Xiao<sup>1</sup>; XianZhen Zhao<sup>1</sup>; D. J. Douglas<sup>1</sup>; N. V. Kononkov<sup>2</sup>; <sup>1</sup>*University of British Columbia, Vancouver, Canada*; <sup>2</sup>*Ryazan State Pedagogical University, Ryazan, Russia*
- ThP 058 **An Ion Guide Study: Quadrupoles, Hexapoles, Octopoles and Rectilinear Quadrupoles;** Randy Pedder; Ted Novak; Samantha Kunkle; *Ardara Technologies L.P., Ardara, PA*
- ThP 059 **Experimental Investigation of Mass Analysis with Linear Quadrupoles with Added Multipole Fields Operated in Islands of Stability;** XianZhen Zhao<sup>1</sup>; Zilan Xiao<sup>1</sup>; Annie Moradian<sup>1</sup>; Donald J. Douglas<sup>1</sup>; Nikolai V. Kononkov<sup>2</sup>; <sup>1</sup>*University of British Columbia, Vancouver, Canada*; <sup>2</sup>*Ryazan pedagogical University, Ryazan, Russia*
- ThP 060 **Characterisation of a Novel Axially Focusing Miniature Linear Ion Trap for Mass Spectrometry;** Gareth S. Dobson; Christie G. Enke; *University of New Mexico, Albuquerque, NM*

**ION ACTIVATION DISSOCIATION: APPLICATIONS  
061 - 075**

- ThP 061 **Enhanced CID Efficiency of Brevetoxins and Unraveling of Novel Fragmentation Pathways in Negative Ion Electrospray Mass Spectrometry;** Wei-qun Wang; Richard B. Cole; *University of New Orleans, New Orleans, LA*
- ThP 062 **Investigations of the Mechanism of the "Proline Effect" in Mass Spectrometry Peptide Fragmentation Experiments;** Mary Disa Raulfs<sup>1</sup>; Linda Brečić<sup>2</sup>; John C. Poutma<sup>1</sup>; Vicki Wysocki<sup>2</sup>; <sup>1</sup>*College of William & Mary, Williamsburg, VA*; <sup>2</sup>*University of Arizona, Tucson, AZ*
- ThP 063 **ESI/CID Studies of Enterobactin and Enterobactin/Metal Ion Complexes;** Fatma Tuba Gozet; Diethard Kurt Bohme; *Department of Chemistry, York University, Toronto, ON*
- ThP 064 **Reaction of Organosilicon on a Tungsten Surface at Elevated Temperature;** Masato Kiuchi<sup>1</sup>; Takae Takeuchi<sup>2</sup>; Satoru Yoshimura<sup>3</sup>; Akinori Toh<sup>3</sup>; Takahiro Toyoshima<sup>3</sup>; Satoshi Hamaguchi<sup>3</sup>; <sup>1</sup>*AIST, Osaka, JAPAN*; <sup>2</sup>*Nara Women's University, Nara, Japan*; <sup>3</sup>*Osaka University, Suita, Japan*
- ThP 065 **Evaluation of Sulphonication as a Sequence-Tag Stratagem of Protein Identification on a Novel, "Zoom Optics", MALDI-ToF-ToF Instrument;** D J Evason; M D Mills; V C Parr; S P Thompson; *SAI, Manchester, United Kingdom*
- ThP 066 **Investigation of the Complexes of Chromium with Acidic Peptides;** Dan Pu; *University of Alabama, Tuscaloosa, Tuscaloosa, AL*
- ThP 067 **Comparison of CAD, IRMPD, and EID for Identification and Structural Characterization of Phosphate Metabolites;** Hyun Ju Yoo; Haichuan Liu; Kristina Hakansson; *University of Michigan, Ann Arbor, MI*
- ThP 068 **Investigating the Effects of the HIV-1 Nucleocapsid Protein on RNA Isomerization by Tandem Mass Spectrometry;** Kevin B. Turner<sup>1</sup>; Nathan A. Hagan<sup>2</sup>; Daniele Fabris<sup>1</sup>; <sup>1</sup>*University of Maryland Baltimore*

THURSDAY POSTERS

POSTER SPACE

- County, Baltimore, MD; <sup>2</sup>Johns Hopkins University, APL, Laurel, MD
- ThP 069 **A New MALDI Matrix for Studying Copper Binding Peptides;** Zhaoxiang Wu; David H Russell; TAMU, College Station, TX
- ThP 070 **Rapid Identification and Characterisation of Tryptic Peptides using High Linear Velocity Nanobore UPLC MALDI MS/MS and Ion Mobility Separation;** Marten Snel; Emmanuelle Claude; Iain Campuzano; Therese McKenna; James Langridge; Waters Corp, Manchester, United Kingdom
- ThP 071 **Super-Critical Fluid Chromatography (SFC) with Tandem Mass Spectrometry (MS/MS) to Evaluate the Absorption and Delivery of Individual Stereoisomers;** QingPing Han; Xu Zhang; David P. Budac; Mark J. Hayward; Lundbeck Research US, Paramus, NJ
- ThP 072 **Mechanisms of Cross-linking Reactions of Genipin with  $\beta$ -Lactoglobulin and Related Peptides by MALDI-TOF/TOF Mass Spectrometry;** Alberto Nunez; Phoebe Qi; USDA-ARS-ERRC, Wyndmoor, PA
- ThP 073 **CID of Metal-Ion Adducts of Protected Amino Acids Coupled to Crown Ethers;** Ryan Dain; Maryna Popp; Chris Leavitt; Michael Kullman; Michael J. Van stipdonk; Wichita State University, Wichita, KS
- ThP 074 **Comparison of Peptide Quantitation with NanoLC/ESI and MALDI MRM;** Bradley B. Schneider<sup>2</sup>; Christie L. Hunter<sup>1</sup>; Matthew Champion<sup>1</sup>; Tina Settineri<sup>1</sup>; Thomas R. Covey<sup>2</sup>; <sup>1</sup>Applied Biosystems, Foster City, CA; <sup>2</sup>MDS SCIEX, Concord, Ontario, Canada
- ThP 075 **Fragmentation of Acidic Ru(II) and Os(II) Complexes in the Gas-Phase;** Janne Janis; Minna Jakonen; Larisa Oresmaa; Matti Haukka; Pirjo Vainiotalo; University of Joensuu, Joensuu, Finland

PEPTIDES: FRAGMENTATION & SEQUENCING  
076 - 091

- ThP 076 **Characterization and Sequencing of Histone Proteins by Ion Mobility Tandem Mass Spectrometry;** Hye Ryung Jung<sup>1</sup>; James Langridge<sup>2</sup>; Chris Hughes<sup>2</sup>; Ole Nørregaard Jensen<sup>1</sup>; <sup>1</sup>University of Southern Denmark, Odense, Denmark; <sup>2</sup>Waters corporation, Manchester, UK
- ThP 077 **Observing Immonium and Related Mass Ions using Thermally-Assisted Infrared Multiphoton Photodissociation in a Quadrupole Ion Trap Mass Spectrometer;** G. Asher Newsome; Gary L. Glish; Univeristy of North Carolina, Chapel Hill, NC
- ThP 078 **Impact of Pro and Asp Residues on the Dissociation of Intermolecularly Crosslinked Peptides;** Myles W. Gardner; Jennifer S. Brodbelt; The University of Texas at Austin, Austin, TX
- ThP 079 **Investigating the Sequence of a Novel Cyclic Lantibiotic Peptide, Paenibacillin, with Mass Spectrometry and Nuclear Magnetic Resonance (NMR);** Liwen Zhang<sup>1</sup>; Zengguo He<sup>2</sup>; Chunhua Yuan<sup>3</sup>; Kari B. Green-Church<sup>1</sup>; Ahmed E. Yousef<sup>2</sup>; <sup>1</sup>MS&P Facility, the Ohio State University, Columbus, OH; <sup>2</sup>Department of Food Science & Technology, OSU, Columbus, OH; <sup>3</sup>NMR Laboratory, the Ohio State University, Columbus, OH
- ThP 080 **Oxidation vs Carboxymethylation of S-S Bond in Frog Peptides: Pro and Contra for de novo MALDI-MS Sequencing;** Tatiana Yu. Samgina; Konstantin A. Artemenko; Vladimir A. Gorshkov; Albert T. Lebedev;

POSTER SPACE

- Department of Chemistry, Moscow State University, Moscow, Russian Federation
- ThP 081 **Structure Elucidation of Natural Glycosylated Cyclic Peptides by CID, IRMPD, and ECD Using a 9.4 Tesla FTMS;** Xidong Feng; Haiyin He; Melissa Wagenaar; Wyeth Research, Pearl River, NY
- ThP 082 **Metal Ion Complexes of Diastereoisomeric Cyclic Peptides c-(Lys-D/L-His- $\beta$ -Ala-His) with Copper, Zinc and Nickel;** Gianluca Giorgi<sup>1</sup>; Luigi Messori<sup>2</sup>; Mauro Ginanneschi<sup>3</sup>; <sup>1</sup>University of Siena, Department of Chemistry, Siena, Italy; <sup>2</sup>University of Florence, Department of Chemistry, Florence, Italy; <sup>3</sup>University of Florence, Dept. of Organic Chemistry, Florence, Italy
- ThP 083 **LTQ-FT and LTQ-ORBITrap: A Comparison of the Accurate Mass MS/MS Capabilities;** Matthew T. Mazur; Fanyu Meng; Robert E. Settlege; Kai Zhou; Yi Du; Ekaterina G. Deyanova; Nathan A. Yates; Ronald C. Hendrickson; Merck Research Labs, Rahway, NJ
- ThP 084 **M/z 58 – A Marker Ion for Di- and Trimethylated Lysine Residues in High-Energy CID Spectra of Protonated Peptides;** Dieter R. Mueller; Debora Bonenfant; Bruno Inverardi; Patrick Schindler; Annick Waldt; Urs Wirth; Jan van Oostrum; Novartis, Basel, Switzerland
- ThP 085
- ThP 086 **Undesired Products Formed During Iodoacetamide Derivatization of Sulfhydryl Groups of Peptides;** Athula B. Attygalle; Zhihua Yang; Stevens Institute of Technology, Hoboken, NJ
- ThP 087 **De novo Protein Sequencing via Assembly of High Resolution MS/MS Spectra from Overlapping Peptides;** Nuno Bandeira<sup>1</sup>; Karl Clauser<sup>2</sup>; Pavel Pevzner<sup>1</sup>; <sup>1</sup>University of California, San Diego, La Jolla, CA; <sup>2</sup>Broad Institute, Cambridge, MA
- ThP 088 **Improving Proteomics by Increasing the Accuracy of Peptide Fragmentation Spectrum Prediction;** Predrag Radivojac; Pedro Alves; Kang Peng; Haixu Tang; Randy J. Arnold; Indiana University, Bloomington, IN
- ThP 089 **Optimizing Data Acquisition for Automated de novo Sequencing;** Iain Rogers<sup>1</sup>; Gary Woffendin<sup>2</sup>; Michaela Scigelova<sup>2</sup>; <sup>1</sup>Bioinformatics Solutions, Waterloo, Canada; <sup>2</sup>Thermo Fisher Scientific, Hemel Hempstead, United Kingdom
- ThP 090 **Sequence Analysis of Endogenous Peptides Found In Human Plasma;** Ekaterina G. Deyanova; Nathan A. Yates; Ronald C. Hendrickson; Merck Research Laboratories, Rahway, NJ
- ThP 091 **Top-down Insect Neuropeptide Analysis with nano-LC and a 14.5 T FT-ICR Mass Spectrometer;** Peter D. Verhaert<sup>1</sup>; Mark R. Emmett<sup>2</sup>; Tanner M. Schaub<sup>2</sup>; Martijn W. Pinkse<sup>1</sup>; Carol L. Nilsson<sup>2</sup>; <sup>1</sup>Delft University of Technology, Delft, Netherlands; <sup>2</sup>NHMFL, Tallahassee, Florida

IMAGING: SMALL MOLECULES  
092 - 107

- ThP 092 **Ceramide-bones of Brain Gangliosides Visualized by Mass Microscopy;** Shuichi Shimma; Mitsutoshi Setou; Okazaki institute for integrative bioscience, Okazaki, Japan
- ThP 093 **Imaging Mass Spectrometry Revealed the Distinct Distribution and Developmental Change of Ganglioside Molecular Species in the Mouse Hippocampus;** Yuki Sugiura<sup>1</sup>; Shuichi Shimma<sup>2</sup>; Yoshiyuki Konishi<sup>3</sup>; Hiroshi Ageta<sup>3</sup>; Takashi Nirasawa<sup>4</sup>; Mitsutoshi Setou<sup>2</sup>; <sup>1</sup>Department of Bioscience and

THURSDAY POSTERS

POSTER SPACE

- Biotechnology, Tokyo, Yokohama, JAPAN; <sup>2</sup>Okazaki Institute for Integrative Bioscience, Okazaki, JAPAN; <sup>3</sup>MITILS, Tokyo, Japan; <sup>4</sup>Bluker Daltonics, Kanagawa, Japan*
- ThP 094 **Mass Spectrometric Imaging of Cultured Neurons from *Aplysia californica***; Michael P. Napolitano; Peter Lovell; Leonid L. Moroz; Richard A. Yost; *University of Florida, Gainesville, FL*
- ThP 095 **Imaging of Small Molecules in Tissue Sections using MALDI MS**; Anna Nilsson<sup>1</sup>; Sören-Oliver Deininger<sup>2</sup>; György Marko-Varga<sup>3</sup>; Thomas Fehniger<sup>3</sup>; Stefan Eirefelt<sup>3</sup>; Kerstin Kenne<sup>3</sup>; Lena Gustavsson<sup>3</sup>; Per E. Andren<sup>1</sup>; <sup>1</sup>Uppsala University, Uppsala, Sweden; <sup>2</sup>Bruker Daltonics, Bremen, Germany; <sup>3</sup>Astrazeneca, Lund and Sodertälje, Sweden
- ThP 096 **Multilevel MALDI MS Tissue Imaging of Pharmaceuticals**; Fangbiao Li; Lee Crossman; Xiaoming Cui; Ian Knemeyer; Morrison Richard; Yunsheng Hsieh; Walter Korfmacher; *Schering-Plough Research Institute, Kenilworth, NJ*
- ThP 097 **MALDI-TOF-MS Imaging of Lipids in Rat Brain Tissue with Integrated Unsupervised and Supervised Multivariate Statistical Analysis**; Paul J Trim<sup>1</sup>; Sally J Atkinson<sup>1</sup>; Peter S Marshall<sup>2</sup>; Andrew West<sup>2</sup>; Malcolm R Clench<sup>1</sup>; <sup>1</sup>Sheffield Hallam University, Sheffield, United Kingdom; <sup>2</sup>GlaxoSmithKline, Stevenage, United Kingdom
- ThP 098 **Imaging of Drugs, Metabolites and Proteins in Tissue via MALDI, SIMS and LA-ICP Mass Spectrometry**; Josephine Bunch<sup>1</sup>; Hazel Dickson<sup>1</sup>; Jaume Seuma<sup>1</sup>; Cameron McLeod<sup>1</sup>; Julia E. Wingate<sup>2</sup>; Tony Carado<sup>3</sup>; Joseph Kozole<sup>3</sup>; Nicholas Winograd<sup>3</sup>; <sup>1</sup>The University of Sheffield, Sheffield, United Kingdom; <sup>2</sup>Applied Biosystems/MDS Sciex, Concord, Canada; <sup>3</sup>Penn State University, State College, Pa
- ThP 099 **Clozapine Distribution in Rat Brain and Lung: A Comparison of Imaging by DESI-MS vs LC MS/MS Analysis of Brain Homogenates**; Justin M. Wiseman<sup>1</sup>; Candice Kissinger<sup>2</sup>; Demian R. Ifa<sup>3</sup>; Candace Rohde<sup>2</sup>; James Burleigh<sup>2</sup>; Simon Katner<sup>2</sup>; Bruce Solomon<sup>2</sup>; Yongxin Zhu<sup>2</sup>; R. Graham Cooks<sup>3</sup>; <sup>1</sup>Prosolia, Inc., Indianapolis, IN; <sup>2</sup>Bioanalytical Systems Inc., West Lafayette, IN; <sup>3</sup>Purdue University, West Lafayette, IN
- ThP 100 **Use of Imaging Tandem Mass Spectrometry for the Elucidation of Chemical Species Related to Age-Related Macular Degeneration (AMD)**; Timothy J Garrett; William W Dawson; Richard A Yost; *University of Florida, Gainesville, FL*
- ThP 101 **ToF-SIMS Imaging Allows Lipid Mapping of Human Dystrophic and Control Muscle Sections**; Nora Tahallah<sup>1</sup>; Alain Brunelle<sup>1</sup>; Sabine De La Porte<sup>2</sup>; Olivier Laprèvote<sup>1</sup>; <sup>1</sup>Lab. de Spectrométrie de Masse - ICSN-CNRS, Gif sur Yvette, FRANCE; <sup>2</sup>Lab. Neurobiol. Cell. et Mol. - INAF-CNRS, Gif sur Yvette, France
- ThP 102 **MALDI MS Imaging to Reveal Distribution of Benzodiazepine Drug and Metabolite Molecules in Rat Brain**; Tomoyuki Ohkawa; Josephine Bunch; *The University of Sheffield, Sheffield, United Kingdom*
- ThP 103 **The Distribution of Metabolites of Di-(2-ethylhexyl) Phthalate on a Whole Rat by Imaging MS using a MALDI Ion Trap**; Timothy A. Snow<sup>1</sup>; Mari Prieto Conaway<sup>2</sup>; H. Bui<sup>2</sup>; William J. Fasano<sup>1</sup>; LaRue Manning<sup>1</sup>; <sup>1</sup>DuPont Haskell Laboratory, Newark, DE; <sup>2</sup>Thermo Fisher Scientific, San Jose, CA

POSTER SPACE

- ThP 104 **Applying Imaging ToF-SIMS and PCA in Differentiation of Mouse Embryo Tissue Types**; Ligang Wu<sup>1</sup>; Elena S.F Berman<sup>1</sup>; Kris S. Kulp<sup>1</sup>; James S. Felton<sup>1</sup>; Kuang Jen J. Wu<sup>1</sup>; <sup>1</sup>Lawrence Livermore National Lab, Livermore, CA; <sup>2</sup>UC Davis, Davis, CA
- ThP 105 **Phospholipid Imaging by MALDI Mass Spectrometry – Application to Renal Cell Carcinoma**; Satu M. Puolitaival; Stephen B. Milne; H. Alex Brown; Richard M. Caprioli; *Vanderbilt University, Nashville, TN*
- ThP 106 **Dynamic Pharmacometabolome of Mouse Brain with Precise Bio-Molecule Identification by MALDI QIT-TOF Based High Resolution MS Microscopy**; Kiyoshi Ogawa<sup>1</sup>; Hideaki Izumi<sup>1</sup>; Takahiro Harada<sup>1</sup>; Sadao Takeuchi<sup>1</sup>; Yoshikazu Yoshida<sup>1</sup>; Yuki Sugiura<sup>2</sup>; Mitsutoshi Setou<sup>2</sup>; <sup>1</sup>Shimadzu Corporation, Kyoto, JAPAN; <sup>2</sup>National Institute of Physiological Sciences, Okazaki, Japan
- ThP 107 **Imaging Lipid Bilayers using MALDI-TOF Mass Spectrometry**; Stacy D. Sherrod; Susan Daniel; Arnaldo Diaz; Edward T. Castellana; David H. Russell; *Texas A&M University, College Station, TX*

AGRICULTURE

108 - 124

- ThP 108 **Sample Preparation and Quantification of Tetracycline Antibiotic Residues in Royal Jelly by LC/MS**; Xiaofeng Xue<sup>1</sup>; Jing Zhao<sup>1</sup>; Jingquan Dai<sup>2,3</sup>; Ray Chen<sup>2,3</sup>; <sup>1</sup>Bee Product Test Center, Ministry of Agriculture, Beijing, P.R. of China; <sup>2</sup>Thermo Fisher Scientific, Beijing, P.R. of China; <sup>3</sup>Thermo Fisher Scientific, San Jose, CA
- ThP 109 **Development and Validation of a Liquid Chromatography / Tandem Mass Spectrometric Method for Determination of Phytoestrogens in Dairy Milk**; Jens Hansen-Møller<sup>1</sup>; Håvard Steinshamn<sup>2</sup>; Erling Thuen<sup>3</sup>; Stig Purup<sup>1</sup>; <sup>1</sup>University of Aarhus, Tjele, Denmark; <sup>2</sup>Bioforsk Organic Food and Farming, Tingvoll, Norway; <sup>3</sup>Norwegian University of Life Sciences, Ås, Norway
- ThP 110 **Simple and Rapid Analysis of Chloramphenicol in Milk with LC-MS-MS**; Ting Liu<sup>1,2</sup>; Peter Wang<sup>1,2</sup>; Keifei Wang<sup>1,2</sup>; <sup>1</sup>Thermo Fisher Scientific, Shanghai, China; <sup>2</sup>Thermo Fisher Scientific, San Jose, CA
- ThP 111 **When You Do Want Keratin in Your Samples - Identification of Proteins in the Wool Keratin Family**; Stefan Clerens; Jeffrey E. Plowman; *AgResearch, Lincoln, New Zealand*
- ThP 112 **Determination of Sulfamerazine, Sulfamethoxazole, Sulfadimethoxine and Sulfamethazine Residues in Milk using LDTD-MS/MS Detection**; Patrice Tremblay<sup>1</sup>; Pierre Picard<sup>1</sup>; Luc Gagnon<sup>2</sup>; Serge Fortier<sup>2</sup>; <sup>1</sup>Phytronix Technologies, Quebec, Canada; <sup>2</sup>MAPAQ, Quebec, Canada
- ThP 113 **On-line HPLC-HRGC Coupling: a New Fully Automated Method for the Determination of Pesticides in Vegetable Samples**; Josep Maria Gibert<sup>2</sup>; Ariadna Galve<sup>1</sup>; Roger Gibert<sup>1</sup>; Nieves Sarrion<sup>1</sup>; <sup>1</sup>KONIK-Tech, Sant cugat del Vallès, Spain; <sup>2</sup>KONIK Instruments, Miami, Florida
- ThP 114 **Rapid Multi-Residue Screening for the Veterinary Drugs in Meat by Supercritical Fluid Extract Combined with Liquid Chromatography-Tandem Mass Spectrometry**; Masahiko Takino<sup>1</sup>; Jerry Zweigenbaum<sup>2</sup>; Yukiko Ono<sup>3</sup>; Masahiro Yuki<sup>3</sup>; <sup>1</sup>Agilent Technologies Japan, LTD., Tokyo, JAPAN; <sup>2</sup>Agilent

THURSDAY POSTERS

POSTER SPACE

- Technologies, wilmington, DE; <sup>3</sup>Nishikawa keisoku Co., LTD, Yokohama, Japan
- ThP 115 **Quick Screening and Quantification of Water-soluble Vitamins Using Rapid Resolution LC/MS/MS;** Sheher Mohsin; Agilent Technologies, Schaumburg, IL
- ThP 116 **Hydroponic Isotope Labelling of Entire Plants (HILEP) for Quantitative Plant Proteomics;** Laurence V. Bindschedler; Magnus Palmblad; Rainer Cramer; The University of Reading, Reading, UK
- ThP 117 **Multiplexed Quantitative Proteomics Using Differential Metabolic <sup>15</sup>N-Labeling;** Magnus Palmblad; Laurence V. Bindschedler; Rainer Cramer; The University of Reading, Reading, United Kingdom
- ThP 118 **Separation and Quantitation of Ergot Alkaloids in Forage Animal Vein Tissue;** Wilson D. Shafer<sup>1</sup>; Darrin Smith<sup>1</sup>; Lori L. Smith<sup>2</sup>; James L. Klotz<sup>2</sup>; James L. Strickland<sup>2</sup>; <sup>1</sup>Eastern Kentucky University, Richmond, KY; <sup>2</sup>USDA-ARS, Forage Animal Production Research Unit, Lexington, KY
- ThP 119
- ThP 120 **Proteomic Study of Arabidopsis Guard Cells: One Cell Type Essential for Higher Plants;** Zhixin Zhao<sup>1</sup>; Bruce Stanley<sup>2</sup>; Sarah M Assmann<sup>1</sup>; <sup>1</sup>Plant Biology Program, Biology Department,, State College, PSU, PA; <sup>2</sup>Section of Research Resources, Penn State College of Med, Hershey, PA
- ThP 121 **Quantitative Analysis on Beer Proteins using Isotopically-Coded Labeling Coupled with HPLC and Mass Spectrometry;** Yuwei Qian<sup>1</sup>; Marta Izydorczyk<sup>2</sup>; Werner Ens<sup>1</sup>; Sharon Bazin<sup>2</sup>; Oleg Krokhin<sup>1</sup>; Vic Spicer<sup>1</sup>; Kenneth Standing<sup>1</sup>; <sup>1</sup>University of Manitoba, Winnipeg, MB, CANADA; <sup>2</sup>Canadian Grain Commission, Winnipeg, MB, Canada
- ThP 122 **Reliable Multi-Target Analysis of Pesticides by HPLC-ESI-TOF;** David Arraez-Ramon<sup>1</sup>; Petra Decker<sup>2</sup>; Ilmari Krebs<sup>2</sup>; Gabriela Zurek<sup>2</sup>; Carsten Baessmann<sup>2</sup>; Antonio Segura-Carretero<sup>1</sup>; Alberto Fernandez-Gutierrez<sup>1</sup>; <sup>1</sup>University of Granada, Granada, Spain; <sup>2</sup>Bruker Daltonik GmbH, Bremen, Germany
- ThP 123 **Proteomics of Medicago Truncatula Vacuoles using 2D LC-MS/MS;** Zhentian Lei; Bonnie S. Watson; Mohamed Bedair; Lloyd W. Sumner; The Samuel Roberts Noble Foundation, Ardmore, OK
- ThP 124 **Application of a Multi-Residue LC-MS-MS Method for Evaluating Potato Pesticide Impacts in Atlantic Canada;** Mark Hewitt<sup>1</sup>; Suzanne Batchelor<sup>1</sup>; Herb Rees<sup>2</sup>; Lien Chow<sup>2</sup>; Linnell Edwards<sup>3</sup>; Alan Macrae<sup>3</sup>; <sup>1</sup>Environment Canada, Burlington, Canada; <sup>2</sup>Potato Research Centre, Fredericton, Canada; <sup>3</sup>Crops and Livestock Research Centre, Charlottetown, Canada

ENVIRONMENTAL ANALYSIS  
125 - 141

- ThP 125 **Electrospray Tandem Mass Spectrometry of the Dimethylimidazolesulfonyl Derivatives of Phenols, Polycyclic Aromatic Hydrocarbon Metabolites, and Estrogens;** Li Xu<sup>2</sup>; David C. Spink<sup>1</sup>; <sup>1</sup>Wadsworth center, Albany, NY; <sup>2</sup>University at Albany, SUNY, Albany, NY
- ThP 126 **Mass Spectrometric Characterization of Toxic Components in Aircraft Deicer Fluids;** Carin A. Huset; Katherine C. Hyland; P. Lee Ferguson; University of South Carolina, Columbia, SC
- ThP 127 **Elemental Analysis of Fulvic Acids of Shilajit using Ultra High Resolution Mass Spectrometry;** Khalid Anwer<sup>1</sup>; Matthias Witt<sup>2</sup>; Boris Koch<sup>3</sup>; Suraj Agarwal<sup>1</sup>; Asgar Ali<sup>1</sup>; Jasmin Sultana<sup>1</sup>; Rajesh Khanna<sup>1</sup>; <sup>1</sup>Jamia

POSTER SPACE

- Hamdard University, New Delhi, India; <sup>2</sup>Bruker Daltonik GmbH, Bremen, Germany; <sup>3</sup>Alfred-Wegener-Institute for Marine Research, Bremerhaven, Germany
- ThP 128 **Determination of Pyrethroid Pesticide Residues from Rat Tissue using Two-Dimensional LC/MS;** Edward J. Scollon<sup>1</sup>; James M. Starr<sup>2</sup>; Michael F. Hughes<sup>1</sup>; Michael J. DeVito<sup>1</sup>; Witold M. Winnik<sup>3</sup>; <sup>1</sup>US EPA/ORD/NHEERL/ETD, Research Triangle Park, NC; <sup>2</sup>US EPA/ORD/NERL/HEASD, Research Triangle Park, NC; <sup>3</sup>US EPA/ORD/NHEERL/ECD, Research Triangle Park, NC
- ThP 129 **Wide Spectrum UV/Vis/IR Emission from Plants for Use as an Indicator for Mass Spectrometric Analysis of Environmental Toxins;** Ronny C. Robbins; William M. Lagna; US Army, Gunpowder, MD
- ThP 130 **Determination of Novel Environmental Contaminants in Effluents from Municipal Sewage Treatment Plants using LC/MS and Principal Component Analysis;** Mehran Alaei<sup>1</sup>; Shirley Anne Smyth<sup>1</sup>; Elliot Jones<sup>2</sup>; Christopher Borton<sup>2</sup>; Mark Kuracina<sup>2</sup>; <sup>1</sup>Environment Canada, Burlington, Canada; <sup>2</sup>Applied Biosystems, Foster City, CA
- ThP 131 **Characterization of Dissolved Organic Matter in Coastal Areas Outside of the Chesapeake Bay;** Zhanfei Liu; Rachel Sleighter; Susan A. Hatcher; Patrick G. Hatcher; Old Dominion University, Norfolk, VA
- ThP 132 **Characterization of Glutathione Conjugates of Chlortetracyclines and Chloroacetanilides using Ion-Trap Mass Spectrometry;** Diana Aga; Michael Farkas; University at Buffalo, Buffalo, NY
- ThP 133 **A single LC/MS/MS Analytical Method for the Quantitation of Fluorotelomer Alcohols, Perfluorinated Carboxylic Acids, and Polyfluorinated Acids in Biological Matrices;** Michael P. Mawn<sup>1</sup>; Bogdan Szostek<sup>1</sup>; Stephen George<sup>1</sup>; Richard Rossi<sup>1</sup>; Keith B. Prickett<sup>1</sup>; Charles R. Powley<sup>1</sup>; Robert C. Buck<sup>2</sup>; <sup>1</sup>E. I. duPont de Nemours & Co., Inc., Newark, DE; <sup>2</sup>E. I. duPont de Nemours & Co., Inc., Wilmington, DE
- ThP 134 **The Characterization of Environmentally Significant Oxidic and Sulfidic Metal Clusters using ESI FT-ICR MS;** Jeffrey Spraggins<sup>1</sup>; Katherine Mullaugh<sup>1</sup>; Julia Laskin<sup>2</sup>; Murray Johnston<sup>1</sup>; George Luther<sup>1</sup>; Douglas Ridge<sup>1</sup>; <sup>1</sup>The University of Delaware, Newark, DE; <sup>2</sup>Pacific Northwest National Laboratory, Richland, WA
- ThP 135 **Identification, Characterization, and Quantification of Lead-Binding Proteins in a Hyperaccumulator Using HPLC-ES-MS;** Stephan Bach; Syam S. Andra; Rupali Datta; Dibyendu Sarkar; Conor P. Mullens; University of Texas at San Antonio, San Antonio, TX
- ThP 136 **Characterization of Fulvic and Humic Acids from Different Locations by Ultrahigh Resolution Mass Spectrometry;** Matthias Witt<sup>1</sup>; Boris Koch<sup>2</sup>; <sup>1</sup>Bruker Daltonik GmbH, Bremen, Germany; <sup>2</sup>Alfred-Wegener-Institute for Marine Research, Bremerhaven, Germany
- ThP 137 **Identification of Novel Plant Metabolites using Accurate Mass, MS/MS Data, Nanospray Technology, and Unique Isotope Pattern Recognition;** Jesse L. Balcer; Jeffrey R. Gilbert; Sara J. Linder; John D. Magnussen; Pete L. Johnson; Mark S. Krieger; Dow AgroSciences, Indianapolis, IN
- ThP 138 **Determination of Off-Odors and Volatile Organic Compounds from Starch-Derived Biodegradable Polymers;** Enrico Davoli<sup>1</sup>; Giancarlo Bianchi<sup>1</sup>; Ettore Zuccato<sup>1</sup>; Fernanda Farachi<sup>2</sup>; Roberto Fanelli<sup>1</sup>; <sup>1</sup>Mario

## THURSDAY POSTERS

### POSTER SPACE

- Negri Institute, Milano, Italy; <sup>2</sup>Novamont S.p.A., Novara, Italy
- ThP 139 **Sulfur Kinetic Isotope Effects Accompanying Decomposition of Sulfuryl Chloride During Chlorination of Organic Compounds;** Ian H. Krouse<sup>1</sup>; Brian Moore<sup>2</sup>; H. Roy Krouse<sup>3</sup>; <sup>1</sup>Denison University, Granville, OH; <sup>2</sup>Wittenberg University, Springfield, OH; <sup>3</sup>The University of Calgary, Calgary, Alberta, Canada
- ThP 140 **Determination of Metabolites from Azo Dyes in Fungal Degradation by Capillary Electrophoresis/Electrospray Mass Spectrometry;** Xueheng Zhao; Huey-Min Hwang; Jackson State University, Jackson, MS
- ThP 141 **Detection of Persistent Biocides in Sewage Sludge and Human Blood using LC-ESI-MS and LC-ESI-MS/MS;** Jochen Heidler; Rolf U. Halden; Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

<b>HOMELAND SECURITY</b> <b>142 - 159</b>
--

- ThP 142 **Detection of Explosives on Clothing Material by Direct and Air Sampling Thermal Desorption GC/MS;** Ronald E. Shomo, II; Rob Frey; John J. Manura; Scientific Instrument Services, Ringoes, NJ
- ThP 143 **Attribution of Explosive Origin from Natural Isobaric Ion Profiles Determined by FT/MS Analysis;** Jean-Claude Tabet; Sigrid Baumgarten; Denis Lesage; Martine Barbe-Leborgne; University P. and M. Curie, Paris Cedex 05, France
- ThP 144 **Direct Laser Desorption of Low Vapor Pressure Chemical Warfare Agent Simulants in Both Laboratory and Field-Portable Time-of-Flight (TOF) Mass Spectrometers;** Timothy J. Cornish; Nathan A. Hagan; Alan F. Becknell; Timothy P. Lipka; Jonathan W. Boyd; Plamen A. Demirev; Applied Physics Lab, MS:2-217, Laurel, MD
- ThP 145 **Rapid Analysis of Intact Viruses using Residue Specific Chemical Cleavage Combined with MALDI TOF MS;** Stephen Swatkoski; Nathan Edwards; Catherine Fenselau; University of Maryland, College Park, Maryland
- ThP 146 **Combined Rapid Quantitative LC-MS/MS Method to Determine Exposure to Selected Carbamate Pesticides and Tetranitromethane;** Huijuan Zhang; Patrick Dhooge; New Mexico Department of Health SLD, Albuquerque, NM
- ThP 147 **Rapid Detection of a Plasmid-Encoded Protein in E.coli;** Scott Russell; Nathan Edwards; Catherine Fenselau; University of Maryland, College Park, MD
- ThP 148 **Monitoring of Gaseous Toxic Compounds in Air using a Handheld Rectilinear Ion Trap Mass Spectrometer;** Heriberto Hernandez<sup>1</sup>; Adam D. Keil<sup>2</sup>; Miriam Fico<sup>1</sup>; Qingyu Song<sup>1</sup>; Robert J. Noll<sup>1</sup>; Zheng Ouyang<sup>1</sup>; R. Graham Cooks<sup>1</sup>; <sup>1</sup>Purdue University, West Lafayette, IN; <sup>2</sup>Griffin Analytical Technologies, LLC, West Lafayette, IN
- ThP 149 **Detection of Chemical Warfare Agent Degradation Products in Foods using HPLC-ICP-MS and ESI-MS;** Kevin M Kubachka<sup>1</sup>; Douglas T Heitkemper<sup>2</sup>; Joseph A Caruso<sup>1</sup>; <sup>1</sup>University of Cincinnati, Cincinnati, OH; <sup>2</sup>FDA: Forensic Chemistry Center, Cincinnati, OH
- ThP 150 **High-Throughput Biological Point Detection by Portable Pyrolysis/GC/QitT-MS;** Jianwei Li; Sheng-Suan Cai; Matt Evans; Jack Syage; Syagen Technology, Tustin, CA

### POSTER SPACE

- ThP 151 **Forensic Identification of Ricin by MALDI-TOF/TOF Analysis;** Frederick J. Cox<sup>1</sup>; E. Alex Jestel<sup>1</sup>; Joy M. Ginter<sup>2</sup>; <sup>1</sup>Battelle East. Science and Tech Center, Aberdeen, MD; <sup>2</sup>Shimadzu Scientific Instruments, Inc., Columbia, MD
- ThP 152 **Analysis of Chemical Warfare Agents in Consumer Products by Desorption Electrospray Tandem Mass Spectrometry (DESI-MS/MS);** Paul A. D'Agostino; Claude L. Chenier; Carmela R. Jackson Lepage; James R. Hancock; DRDC Suffield, Medicine Hat, Canada
- ThP 153 **Identification and Discrimination of Legionella pneumophila Serological Groups Using MALDI-TOF Mass Spectrometry;** Michal Drevinek<sup>1</sup>; Vladimír Drasar<sup>2</sup>; <sup>1</sup>Natl. Inst. for NBC Protection, Milin, Czech Republic; <sup>2</sup>National Legionella Reference Laboratory, Vyskov, Czech Republic
- ThP 154 **Fast and Accurate Detection of Hydrazines in Urine by a SPME / Gas Chromatography / Mass Spectrometry Method;** Nick Beninato; Patrick Dhooge; Scientific Lab Division, New Mexico Dept of Health, Albuquerque, NM
- ThP 155 **Mass Spectral Dependence on Particle Size in Bio-Aerosol Mass Spectrometry;** Erica McJimpsey<sup>1</sup>; Paul Steele<sup>2</sup>; Michael Bogan<sup>2</sup>; Paul Steele<sup>2</sup>; Herbert Tobias<sup>2</sup>; Eric Gard<sup>2</sup>; Matthias Frank<sup>2</sup>; Kuang Jen Wu<sup>2</sup>; Carlotto Lebrilla<sup>1</sup>; <sup>1</sup>University of California, Davis, Davis, CA; <sup>2</sup>Lawrence Livermore National Laboratory, Livermore, CA
- ThP 156 **Rapid Confirmation of Initial Bio-Agent Detection and Identification by Tandem MS-based Proteomics;** Nathan A. Hagan; Miquel D. Antoine; Timothy Cornish; Jeffrey Lin; Andrew B. Feldman; Plamen A. Demirev; Johns Hopkins Univ., Laurel, MD
- ThP 157 **High Throughput Sample Preparation for Atmospheric Pressure MALDI-MS for Rapid Detection and Identification of Microorganisms;** Berk Oktem; Appavu K. Sundaram; Sudeepta Shanbhag; Constance M. Murphy; Vladimir M. Doroshenko; Science and Engineering Services Inc., Columbia, MD
- ThP 158 **Sensitivity Enhancement in the Analysis of Acidic Metabolites of Chemical Warfare Agents by Electrospray Ionization LC/MS/MS;** Doug Mawhinney; Rayman Stanelle; Elizabeth Hamelin; Robert Kobelski; Centers for Disease Control & Prevention, Doraville, GA
- ThP 159 **Microorganism Identification by MS/MS Typing using Spectral Correlation Methods;** Jane Razumovskaya; Sergey Kurnosenko; Appavu K. Sundaram; Constance Murphy; Berk Oktem; Sue Shanbhag; Vladimir M. Doroshenko; MassTech, Columbia, MD

<b>COMPUTER APPLICATIONS</b> <b>160 - 173</b>
--

- ThP 160 **Operator-Independent Workflow Enhancements to an LC/MS/MS High-Throughput Microsomal Stability Screening Assay;** Rongda Xu; Melinda Manuel; Joshua Cramlett; Kheng Lim; Shaokun Pang; Dan Hascall; Daniel B. Kassel; Takeda San Diego, Inc., San Diego, CA
- ThP 161 **Mass Spectrometry on Wikipedia: Open Source and Peer Review;** Kermit K. Murray; Louisiana State Univ., Baton Rouge, LA
- ThP 162 **MS-Expedite: A Universal Spectrum Viewer and de novo Tool;** Angela K. Walker; Panagiotis G. Papoulias; Philip C. Andrews; Univ. of Michigan, Ann Arbor, MI



THURSDAY POSTERS

POSTER SPACE

- ThP 163 **Data Dependent Peak Selection in the Chromatographic Frequency Domain;** Michael W. Senko; Vlad Zabrouskov; *Thermo Fisher Scientific, San Jose, CA*
- ThP 164 **Small Molecules as Mathematical Partitions: Chemical-Spatial Rules;** Daniel L. Sweeney; *MathSpec, Inc., Arlington Heights, IL*
- ThP 165 **Global Mass Spectral Database for Metabolomics;** Zenzaburo Tozuka<sup>1</sup>; Tomonori Takami<sup>1</sup>; Shohei Shioyama<sup>1</sup>; Takaaki Nishioka<sup>2</sup>; Masanori Arita<sup>3</sup>; Ryo Taguchi<sup>3</sup>; Masaru Tomita<sup>4</sup>; <sup>1</sup>*JCL Bioassay Co., Nishiwaki, Japan*; <sup>2</sup>*University of Kyoto, Kyoto, Japan*; <sup>3</sup>*University of Tokyo, Tokyo, Japan*; <sup>4</sup>*University of Keio, Turuoka, Japan*
- ThP 166 **Tool for Multiple Neutral Loss Monitoring, Correlation and Convolution Analysis of Accurate Mass Spectrometry Data;** Eva Duchoslav; J.C.Yves Le Blanc; *MDS Sciex, Concord, Canada*
- ThP 167 **Mass Spectral Database for Metabolome Analysis;** Hisayuki Horai<sup>1</sup>; Kazuhiro Suwa<sup>2</sup>; Masanori Arita<sup>2</sup>; Yoshito Nihei<sup>1</sup>; Takaaki Nishioka<sup>3</sup>; <sup>1</sup>*Keio University, Tsuruoka, Japan*; <sup>2</sup>*University of Tokyo, Kashiwa, Japan*; <sup>3</sup>*Kyoto University, Kyoto, Japan*
- ThP 168 **Development and Validation of a Novel LC/MS/MS Data Review and *in-vivo* PK Processing Software;** Daniel K Jansson<sup>1</sup>; Larry E Elvebak<sup>2</sup>; <sup>1</sup>*Novartis Institutes for BioMedical Research Inc, Cambridge, MA*; <sup>2</sup>*Gubbs Inc, Alpharetta, GA*
- ThP 169 **FAME Analysis of Hesperis Matronalis: GCxGC-TOFMS Better Resolution;** Ashli E. Brown<sup>1</sup>; William E. Holmes<sup>1</sup>; Elizabeth C. Rogers<sup>1</sup>; Tincuta Verioti<sup>2</sup>; Brian Baldwin<sup>1</sup>; <sup>1</sup>*Mississippi State University, Mississippi State, MS*; <sup>2</sup>*Leco Corporation, St. Joseph, MI*
- ThP 170 **Peak Deconvolution Algorithm to Improve Mass Accuracy of TOF-MS Data;** Gordana Ivosev; Eva Duchoslav; Alina DinDyal-Popescu; J.C.Yves Le Blanc; Ron Bonner; Christopher Lock; *MDS Sciex, Concord, Canada*
- ThP 171 **Automatic MS/MS Methods Development using an Information Dependent Scanning Protocol to Enhance Sensitivity for High-Throughput ADME Screening and Drug Discovery;** Kevin Whalen<sup>1</sup>; John S. Janiszewski<sup>1</sup>; S.A. Ainley<sup>2</sup>; Wayne Lootsma<sup>2</sup>; E.B. Jones<sup>3</sup>; L.Y. Olsen<sup>3</sup>; Eva Duchoslav<sup>3</sup>; Lyle Burton<sup>3</sup>; <sup>1</sup>*Pfizer Inc, Groton, CT*; <sup>2</sup>*Sound Analytics, East Lyme, CT*; <sup>3</sup>*Applied Biosystems/Sciex, Foster City, CA*
- ThP 172 **Development of the Real-Time Quantitative Analysis System;** Toshiyuki Yokosuka<sup>1</sup>; Kiyomi Yoshinari<sup>1</sup>; Atsumu Hirabayashi<sup>2</sup>; Naomi Manri<sup>2</sup>; Kinya Kobayashi<sup>1</sup>; <sup>1</sup>*Hitachi, Ltd. Hitachi Research Laboratory, Hitachi, Japan*; <sup>2</sup>*Hitachi, Ltd. Central Research Laboratory, Kokubunji, Japan*
- ThP 173 **Comprehensive Two-Dimensional Gas Chromatography/Time-of-Flight Mass Spectrometry (GCxGC/TOF-MS) Data Alignment for Metabolomics;** Cheolhwan Oh<sup>1</sup>; Xiaodong Huang<sup>2</sup>; Charles Buck<sup>1</sup>; Xiang Zhang<sup>1</sup>; <sup>1</sup>*Bindley Bioscience Center, Purdue University, West Lafayette, IN*; <sup>2</sup>*Department of Chemistry, Purdue University, West Lafayette, IN*

LC/MS: NANO  
174 - 187

- ThP 174 **Assessment of Intact Phospholipids in Outer Membrane Vesicles of *Neisseria meningitidis* Serogroup B Bacteria with Nanoscale LC-MS;** Hugo

POSTER SPACE

- D. Meiring; Martin R.J. Hamzink; Bert Zomer; Ad P.J.M. de Jong; *Netherlands Vaccine Institute, Bilthoven, Netherlands*
- ThP 175 **High Performance Fused Silica Capillary Columns for High Sensitivity LC/ESI/MS: Application to Proteomics;** Scott B Ficarro<sup>1</sup>; Ahmadali R Moghimi<sup>1</sup>; Yi Zhang<sup>1</sup>; Manor Askenazi<sup>1</sup>; Eric D Smith<sup>1</sup>; Jarrod A Marto<sup>2</sup>; <sup>1</sup>*Dana-Farber Cancer Institute, Boston, MA*; <sup>2</sup>*Harvard Medical School, Boston, MA*
- ThP 176 **Elevating Capillary Column Temperature Improves Proteomic Performance;** Andrew W. Guzzetta; *Stanford University, Stanford, CA*
- ThP 177 **Quantification of Free and Total ON 01910.Na in Plasma in Phase I Clinical Trial using Nanospray Ionization;** Sool Yeon Cho<sup>1</sup>; John Roboz<sup>1</sup>; Takao Ohnuma<sup>1</sup>; Stanley C. Bell<sup>2</sup>; Premkumar Reddy<sup>3</sup>; James F. Holland<sup>1</sup>; <sup>1</sup>*Mount Sinai School of Medicine, New York, NY*; <sup>2</sup>*Onconova Therapeutics Inc., Lawrenceville, NJ*; <sup>3</sup>*Temple University, Philadelphia, PA*
- ThP 178 **Automation of RP/RP 2D nanoLC/MS Analysis with a Novel Online Organic Dilution Method;** Hongji Liu; Guo-zhong Li; Jeffrey W. Finch; Scott J. Geromanos; John C. Gebler; *Waters Corporation, Milford, MA*
- ThP 179 **Highsensitive Proteomics of Limited Number of Cells Using LC-MS with Ultranarrow Porous Layer Open Tubular (PLOT) Columns;** Barry L. Karger; Quanzhou Luo; Guihua Yue; Ye Gu; Tomas Rejtar; Shiao-Lin Wu; *Barnett Institute, Northeastern University, Boston, MA*
- ThP 180 **Improving the Detection of Hydrophilic Peptides for Increased Protein Sequence Coverage and Enhanced Proteomic Analyses;** Brian Hampton<sup>1</sup>; Amos Heckendorf<sup>2</sup>; <sup>1</sup>*University of Maryland, School of Medicine, Baltimore, MD*; <sup>2</sup>*The Nest Group, Inc., Southborough, MA*
- ThP 181 **Optimization of the Nanospray Interface for Applications in Metabolomics;** Agnieszka Kraj<sup>1</sup>; Theo Reijmers<sup>1</sup>; Rob van der Heijden<sup>2</sup>; Ubbo Tjaden<sup>1</sup>; Jan van der Greef<sup>1</sup>; Thomas Hankemeier<sup>1</sup>; <sup>1</sup>*Leiden University, Leiden, Netherlands*; <sup>2</sup>*Leiden/Amsterdam Center for Drug Research, Leiden, Netherlands*; <sup>3</sup>*Centre for Medical Systems Biology, Leiden, Netherlands*
- ThP 182 **On-line 1D and 2D nanoLC-ESI-MS using 10-µm-i.d. Porous Layer Open Tubular Polystyrene-Divinylbenzene Columns for Ultrasensitive Proteomic Analysis;** Quanzhou Luo<sup>1</sup>; Guihua Yue<sup>1</sup>; Gary A. Valaskovic<sup>2</sup>; Ye Gu<sup>1</sup>; Dongdong Wang<sup>1</sup>; Shiao-Lin Wu<sup>1</sup>; Barry L. Karger<sup>1</sup>; <sup>1</sup>*The Barnett Institute, Northeastern University, Boston, MA*; <sup>2</sup>*New Objective, Inc., Woburn, MA*
- ThP 183
- ThP 184 **A Silicon Microfluidic Chip Including a Chromatographic Micro-Column and a Nanoelectrospray Emitter For Mass Spectrometry Based Proteomics Analysis;** Florence Ricoul<sup>1</sup>; Nicolas Sarrot<sup>1</sup>; Frédérique Mittler<sup>1</sup>; Olivier Constantin<sup>1</sup>; Régis Blanc<sup>1</sup>; Françoise Vinet<sup>1</sup>; Jérôme Garin<sup>2</sup>; Claude Vauchier<sup>1</sup>; <sup>1</sup>*CEA-LETI MINATEC DRT/DTBS, Grenoble, France*; <sup>2</sup>*CEA/INSERM/UJF (ERM201) DSV/DRDC, Grenoble, France*
- ThP 185 **Increasing Throughput in nanoLC-MS for Proteomics;** David W. Neyer; Jia Eng Siow; Remco van Soest; Kenneth R. Hencken; Jason E. Rehm; *Eksigent Technologies, Dublin, CA*
- ThP 186 **Rapid Peptide Analysis via Nanobore LC-ESI-MS with Sub-2 µm Particles;** John Neveu<sup>1</sup>; Adam Perala<sup>2</sup>;

THURSDAY POSTERS

POSTER SPACE

Christopher Toher<sup>2</sup>; William Lane<sup>1</sup>; Gary Valaskovi<sup>2</sup>;  
<sup>1</sup>Harvard University, Cambridge, MA; <sup>2</sup>New Objective  
Inc., Woburn, MA

ThP 187 **NanoLC/MS Separation and Automated Tandem  
Mass Spectrometric Analysis for Structural  
Determination of Oligosaccharides;** Latasha Lamotte<sup>1</sup>;  
Patrick D. Perkins<sup>2</sup>; Milady R. Ninonuevo<sup>1</sup>; Rudolf  
Grimm<sup>1</sup>; Carlito B. Lebrilla<sup>1</sup>; <sup>1</sup>UC Davis, Davis, CA;  
<sup>2</sup>Agilent Technologies, Santa Clara, Ca

**LC/MS: SAMPLE PREPARATION: BIOLOGICAL MATRIX  
188 - 212**

ThP 188 **Developing a Turbulent-Flow LC-MS Method to  
Measure Methylmalonic Acid in Biological Fluids;**  
James Byrd<sup>1</sup>; Halil Erol<sup>2</sup>; Hidehiko Azumaya<sup>2</sup>; Joseph  
M. Di Bussolo<sup>1</sup>; <sup>1</sup>Thermo Fisher Scientific, Franklin,  
MA; <sup>2</sup>West Chester University of Pennsylvania, West  
Chester, PA

ThP 189 **Application of a New SPE Polymer, EVOLUTE  
ABN™, for the Extraction of Diuretics from Urine  
and Analysis by LC-MS/MS;** Steve Jordan; Lee  
Williams; Matthew Cleeve; Scott Merriman; Helen  
Lodder; Richard Calverley; Joanna Smith; *Biotage,  
Hengoed, United Kingdom*

ThP 190 **The Stability of Penicillins in LC-MS/MS Assays for  
Equine Plasma Samples;** Jeffrey Rudy<sup>1</sup>; Rongfang Xu<sup>1</sup>;  
Joseph M. Di Bussolo<sup>2</sup>; <sup>1</sup>Pennsylvania Equine  
Toxicology & Research Lab, West Chester, PA; <sup>2</sup>Thermo  
Fisher Scientific, Franklin, MA

ThP 191 **A Sensitive LC-MS/MS Assay for the Determination  
of Phentermine in Human Plasma using SPE and a  
Monolithic LC Column;** John W. Richard; Yong Q.  
Tang; *Covance Bioanalytical Services, LLC,  
Indianapolis, IN*

ThP 192 **Impact on Ion Suppression by Eliminating  
Phospholipid Interferences Using a Generic  
TurboFlow Method;** Francois A. Espourteille;  
Catherine LaFontaine; *Thermo Fisher Scientific,  
Franklin, MA*

ThP 193 **Evaporation-Free Extraction and Application in  
Bioanalysis;** Aimin Tan<sup>1</sup>; Saleh Hussain<sup>1</sup>; Francois  
Vallee<sup>2</sup>; <sup>1</sup>Anapharm Inc. (Richmond Hill), Toronto,  
Canada; <sup>2</sup>Anapharm Inc. (Quebec), Quebec, Canada

ThP 194 **A Fully Automated Robotic System That Allows  
Completely Unattended Plasma Sample Preparation  
Through Protein Precipitation for Rapid LCMS/MS  
Bioanalysis;** Ji Ma; Jianxia Shi; Hoa Le; Robert Cho;  
Judy C. Huang; Bradley K. Wong; Shichang Miao;  
*Amgen, South San Francisco, CA*

ThP 195 **Quantitative Determination of Unchanged  
Hydralazine in Human Whole Blood using  
LC/MS/MS;** James Waltrip; William Mylott; Rand  
Jenkins; *PPD, Richmond, VA*

ThP 196 **Evaluation of Different Sample Preparations and  
Application of a Novel Surfactant for Peptide  
Analysis in Biological Matrices using On-Line SPE-  
LC/MS/MS;** Yan Wang<sup>1</sup>; Isabelle Tcholakov<sup>1</sup>; Michel  
Koch<sup>2</sup>; Miryam Kadkhodayan\*<sup>1</sup>; <sup>1</sup>Amylin  
Pharmaceuticals, Inc., San Diego, CA; <sup>2</sup>Spark Holland,  
Emmen, The Netherlands

ThP 197 **Simplified Sample Preparation for Pharmaceutical  
Sample Quantitation using an Ultra-High Sensitivity  
LC-MS/MS System;** Peter Lodenquai<sup>1</sup>; Renee Huang<sup>1</sup>;  
Tania Sasaki<sup>1</sup>; Mauro Aiello<sup>2</sup>; <sup>1</sup>Applied Biosystems,  
Foster City, CA; <sup>2</sup>Applied Biosystems/MDS Sciex,  
Concord, Canada

POSTER SPACE

ThP 198 **Importance of Complete Automated Control of SPE  
Conditions in Validated LC/MS/MS Assays of GS-  
9137, Metabolites, and Ritonavir in Human Plasma;**  
Michelle Brosnan-Cook; Terri S. Cronin; J. Steve  
Wintermute; John R. Kagel; *Gilead Sciences, Durham,  
NC*

ThP 199 **LC-MS Analysis of Beta Adrenergic Blocking Agents  
from Urine Using Molecularly Imprinted Solid-Phase  
Extraction (SPE);** Carmen T. Santasania; Craig R.  
Aurand; Olga Shimelis; David S. Bell; Daniel  
Shollenberger; *Supelco, Bellefonte, PA*

ThP 200 **Comprehensive Profiling of Endogenous Human  
Plasma Peptides using Restricted Access Material,  
OFFGEL Electrophoresis and HPLC-Chip MS  
Analysis;** Tasso Miliotis<sup>1</sup>; Peter Abrahamsson<sup>2</sup>;  
<sup>1</sup>AstraZeneca R&D Molndal, Molndal, Sweden; <sup>2</sup>Agilent  
Technologies, Göteborg, Sweden

ThP 201 **Simultaneous Extraction of Acidic, Basic and Neutral  
Drugs using 96-well Supported Liquid Extraction  
(SLE) and LC-MS/MS;** Matthew Cleeve; Lee  
Williams; Scott Merriman; Helen Lodder; Steve Jordan;  
Richard Calverley; Joanna Smith; *Biotage, Hengoed,  
United Kingdom*

ThP 202 **Use of Supported Liquid Extraction for Drug  
Analysis from Plasma: High Throughput Sample  
Preparation in a 96 Well Filter Plate;** Vivek Joshi<sup>1</sup>;  
Jason Blodgett<sup>1</sup>; Gregor Jordan<sup>2</sup>; <sup>1</sup>Millipore Corp.,  
Danvers, MA; <sup>2</sup>Roche Diagnostics GMBH, Penzberg,  
Germany

ThP 203 **Function of Ether-Suspended Silica in a Novel  
Approach to Quantitate Alendronate in Human  
Urine with LC-MS/MS;** Jiongwei Pan<sup>1</sup>; Mike Larson<sup>1</sup>;  
Hike Junga<sup>1</sup>; Christopher J Randlett<sup>1</sup>; Mathew Eckert<sup>1</sup>;  
Mohammad Koupaei-Abyazani<sup>1</sup>; Naidong Weng<sup>2</sup>;  
Xiangyu Jiang<sup>1</sup>; <sup>1</sup>Covance Laboratories Inc., Madison,  
WI; <sup>2</sup>Bristol-Myers Squibb, New Brunswick, NJ

ThP 204 **How to Determine Matrix Effects and Extraction  
Recovery in Online Solid-Phase Extraction – Liquid  
Chromatography – Mass Spectrometry;** Alex Berhutu;  
Emile Koster; *Spark Holland Inc., Plainsboro, NJ*

ThP 205 **Whole Blood Analysis by Online SPE-LC-MS/MS: A  
New Approach;** Otto Halmingh; Peter Ringeling; Emile  
Koster; *Spark Holland Inc., Plainsboro, NJ*

ThP 206 **A Complete Automated SPE/LC/MS Method for the  
Analysis of Cocaine and Metabolites in Urine;** Eshwar  
Jagerdeo<sup>1</sup>; Martin Sibum<sup>2</sup>; Madeline Montgomery<sup>1</sup>; John  
Crutchfield<sup>2</sup>; Marc LeBeau<sup>1</sup>; <sup>1</sup>FBI Laboratory, Quantico,  
VA; <sup>2</sup>Spark Holland, Emmen, Netherlands

ThP 207 **Validation of Peptide Profiling for Biomarker  
Analysis from Human Urine by Multidimensional  
LC/MS;** Egidijus Machtejevas<sup>2</sup>; Klaus K. Unger<sup>2</sup>;  
Hartmut Schlüter<sup>3</sup>; Maria Trusch<sup>3</sup>; Ole Schulz-  
Trieglaff<sup>4</sup>; Knut Reinert<sup>4</sup>; Rob Hendriks<sup>1</sup>; Sven  
Andrecht<sup>1</sup>; <sup>1</sup>Merck KGaA, Darmstadt, Germany;  
<sup>2</sup>Johannes Gutenberg Universität, Mainz, Germany;  
<sup>3</sup>Charite, Berlin, Germany; <sup>4</sup>Freie Universität, Berlin,  
Germany

ThP 208 **Comparison of Solid Phase Extraction Methods for  
Reduction of Matrix Induced Ion-Suppression of  
Clenbuterol by Linear Ion Trap;** Craig Aurand; Olga  
Shimelis; Carmen T. Santasania; Daniel Shollenberger;  
*Supelco, Bellefonte, PA*

ThP 209 **LC-ESI-MS/MS Quantitation of the Nucleotide Pro-  
Drug GS-9219 and Metabolites Extracted from Rat  
Plasma;** Alexandre Pimenov; Jeffry Plomley; Timothy

THURSDAY POSTERS

POSTER SPACE

- Samuels; *Charles River Laboratories, Senneville (Montréal), Canada*
- ThP 210 **A Generic Approach to the Extraction of Multi-functional Drugs using Resin-Based Mixed-Mode SPE with LC-MS/MS Analysis;** Scott Merriman; Lee Williams; Matthew Cleeve; Steve Jordan; Richard Calverley; Joanna Smith; *Biotage, Hengoaed, United Kingdom*
- ThP 211 **Difficulties in the LC-MS/MS Bioanalysis of Biphosphonates;** Sandrine A.M. Merette; David J. Anderson; Martin P. Smith; Grace van der Gugten; Irene Popov; Bernard P. Nutley; David J. Gray; *CanTest, Ltd., Vancouver, CANADA*
- ThP 212 **Ion Suppression Reduction by a Hydrophilic Pore Gradient in SPE;** William Hudson; Arnie Aistars; David Jones; *Varian, Inc., Lake Forest, CA*

HIGH THROUGHPUT ANALYSIS / ROBOTICS II  
213 - 228

- ThP 213 **Phase Locked Ion Injection into a Quadrupole Mass Analyzer for Ultra Fast Scanning;** Craig Love; Doug McIntyre; Alex Mordehai; *Agilent Technologies, Inc, Santa Clara, CA*
- ThP 214 **Quantitative Analysis on a Novel MALDI Triple Quadrupole Platform – What Analysis Speed Can Be Achieved on Large Sample Lots?;** Jean-François Alary; George Scott; Feng Zhong; Jay Corr; *Applied Biosystems/MDS Sciex, Concord, Ontario, Canada*
- ThP 215 **Strategy to Streamline LC/MS Purification of Compound Libraries on a Waters ZQ Prep System – Part I. Analytical Sample Pooling;** Yinong Zhang; Lu Zeng; Rongda Xu; Daniel B. Kassel; *Takeda San Diego, Inc., San Diego, CA*
- ThP 216 **Automated Nanofluidic System for Real-time Monitoring of Enzymatic Assays;** Thomas N. Corso<sup>1</sup>; Reinaldo Almeida<sup>1</sup>; Nicole Denhart<sup>2</sup>; Thomas Letzel<sup>2</sup>; Jack Henion<sup>1</sup>; Mike Lees<sup>1</sup>; *<sup>1</sup>Advion Biosciences, Inc., Ithaca, NY; <sup>2</sup>Technical University of Munich, Freising-Weihenstep, Germany*
- ThP 217 **High Throughput Accurate Mass Measurement using the LDTD Ion Source on the LTQ Orbitrap;** Denis Faubert<sup>1</sup>; Karine Venne<sup>2</sup>; Josee Champagne<sup>1</sup>; Alexandra Furtos<sup>2</sup>; Sylvain Letarte<sup>3</sup>; Pierre Picard<sup>3</sup>; Benoit Coulombe<sup>1</sup>; *<sup>1</sup>Proteomics Discovery Platform of the IRCM, Montreal, Canada; <sup>2</sup>RCMS, University of Montreal, Montreal, Canada; <sup>3</sup>Phytronix Technologies, Quebec, Canada*
- ThP 218 **Techniques for MS-Based High Throughput Screening (MS-HTS) in Drug Discovery;** Thomas Roddy; Steven J. Stout; Christopher R. Horvath; Ji-Hu Zhang; W. Adam Hill; Y. Karen Wang; *Novartis Institutes for Biomedical Research, Cambridge, MA*
- ThP 219 **Capacity & Quality Based Approach Achieves High Speed, Separation & Human Efficiency for UV/MS Directed Purification in Drug Discovery;** Xu Zhang; David P. Budac; Mark J. Hayward; *Lundbeck Research US, Paramus, NJ*
- ThP 220 **Strategy to Streamline LC/MS Purification of Compound Libraries on a Waters ZQ Prep System – Part II. Preparative Sample Pooling;** Lu Zeng; Rongda Xu; Yinong Zhang; Derek Laskar; Daniel B. Kassel; *Takeda SD, Inc., San Diego, CA*
- ThP 221 **Direct Scaling from Microbore Column Chromatography to Preparative Column Chromatography to Support Mass-Directed Purification on a Waters ZQ LC/MS System;**

POSTER SPACE

- Catherine Pham; Lu Zeng; Yinong Zhang; Daniel B. Kassel; *Takeda San Diego, San Diego, CA*
- ThP 222 **Towards High-Throughput Shotgun IEF;** Ali R. Vaezzadeh<sup>1</sup>; Jacques Deshusses<sup>1</sup>; Pierre Lescuyer<sup>1</sup>; Catherine G. Zimmermann-Ivol<sup>1</sup>; Alexis Chauvet<sup>1</sup>; Celine Hernandez<sup>2</sup>; Daniel Walther<sup>2</sup>; Ron D. Appel<sup>2</sup>; Denis F. Hochstrasser<sup>1</sup>; *<sup>1</sup>BPRG, Geneva University, Geneva, Switzerland; <sup>2</sup>PIG, Swiss Institute of Bioinformatics, Geneva, Switzerland*
- ThP 223 **Development of an Ultrafiltration Mass Spectrometry Based Screening Assay for Ligands of Human RXRa;** Dongting Liu<sup>1</sup>; Guowen Liu<sup>1</sup>; Yan Luo<sup>1</sup>; David J. Broderick<sup>2</sup>; Michael I. Schimerlik<sup>2</sup>; Richard B. van Breemen<sup>1</sup>; *<sup>1</sup>University of Illinois College of Pharmacy, Chicago, IL; <sup>2</sup>Oregon State University, Corvallis, OR*
- ThP 224 **Automation of Surface Desorption Ionization Technology for High Throughput Analysis of Chemicals and Biological Samples;** Joseph Tice; Brian D. Musselman; Douglas Simmons; Elizabeth Crawford; *IonSense, Inc., Saugus, MA*
- ThP 225 **MALDI-TOF Analysis of Antibody Arrays on Patterned Porous Gold Surfaces;** Kenyon M Evans-Nguyen; Sheng-Ce Tao; Heng Zhu; Robert J Cotter; *Johns Hopkins University, Baltimore, MD*
- ThP 226 **Exploiting MALDI-Based Methods for Rapid Enzyme Inhibitor Screening;** Kenneth D. Greis<sup>1</sup>; Gregory F. Davis<sup>2</sup>; Pauline J. Vollmerhaus<sup>3</sup>; Feng Zhong<sup>3</sup>; *<sup>1</sup>University of Cincinnati, Genome Research Inst., Cincinnati, OH; <sup>2</sup>Celsus Laboratories, Cincinnati, OH; <sup>3</sup>MDS Sciex, Concord, Ontario, Canada*
- ThP 227 **High-Throughput LDTD-MS/MS Determination of Reserpine : 1000 Samples in 1.5 Hours;** Jean Lacoursière; Patrice Tremblay; Pierre Picard; *Phytronix Technologies, Quebec, Canada*
- ThP 228 **High-throughput Characterization of Proteins Bound to Peptoid Arrays using Mass Spectrometry;** Shama P. Mirza<sup>1</sup>; Daniel Savic<sup>1</sup>; Moola Reddy<sup>2</sup>; Andrew S. Greene<sup>1</sup>; Tom Kodadek<sup>2</sup>; Michael Olivier<sup>1</sup>; *<sup>1</sup>Medical College of Wisconsin, Milwaukee, WI; <sup>2</sup>University of Texas Southwestern Medical Center, Dallas, TX*

GCMS  
229 - 247

- ThP 229 **Steroid Isotopic Standards for GCC-IRMS;** Ying Zhang; J. Thomas Brenna; *Cornell University, Ithaca, NY*
- ThP 230 **Evaluation of Solid-Phase Microextraction/On-Fiber Derivatization/Gas Chromatography/Mass Spectrometry for Profiling Steroids and Their Metabolites in the American Alligator;** John A. Bowden; Dieldrich S. Bermudez; Louis J. Guillette Jr; Richard A. Yost; *University of Florida, Gainesville, FL*
- ThP 231 **Analysis of Halogenated Compounds in Sediment and Aquatic Animal Tissues by Ammonia ECNI GC/MS;** Mark R Burkhardt<sup>1</sup>; Steven D Zaugg<sup>1</sup>; Steven G Smith<sup>1</sup>; Thomas P Doherty<sup>2</sup>; Jim Foote<sup>2</sup>; *<sup>1</sup>US Geological Survey, Denver, CO; <sup>2</sup>Agilent Technologies, Santa Clara, CA*
- ThP 232 **Improving Mass Accuracy on a Unit Resolution Quadrupole Mass Spectrometer;** Maria Cristina A. Dancel<sup>1</sup>; David H. Powell<sup>1</sup>; Ming Gu<sup>2</sup>; *<sup>1</sup>University of Florida, Gainesville, FL; <sup>2</sup>Cerno Bioscience, Danbury, CT*
- ThP 233 **A Study of Mass Spectra of Organic Acids and Their Analytical Derivatives;** Kirill Tret'yakov; Yufang

THURSDAY POSTERS

POSTER SPACE

- ThP 234 Zheng; Anzor Mikaia; Stephen Stein; *National Institute of Standards and Technology, Gaithersburg, MD*  
**Rapid GC-MS Profiling of Complex Essential Oils Based on 1D Spectral Deconvolution using an Automated Sequential 2D GC-MS Generated Database;** Albert Robbat; Yongli Huang; *Tufts University, Medford, MA*
- ThP 235 **Potential of Two-Dimensional Gas Chromatography with Time-of-Flight Mass Spectrometric Detection in Food Analysis;** Radim Stepan; Petr Cuhra; Sona Barsova; *Czech Agriculture and Food Inspection Authority, Prague 5, Czech Republic*
- ThP 236 **Application of Different Soft Photo-Ionization Techniques Coupled to Gas Chromatography to Enhance Selectivity (GCxREMPI/SPI-TOFMS) and Separation Power (GCxGCxSPI-TOFMS);** Thomas M. Gröger; Werner Welthagen; Fabian Mühlberger; Stefan Mitschke; Ralf Zimmermann; *GSF Research Centre, Oberschleissheim, Germany*
- ThP 237 **Improved Method for Analysis of Synthetic Pyrethroids and Organophosphate Pesticides in Human Blood Plasma using Gas Chromatography-High Resolution Mass Spectrometry;** Jose J. Perez<sup>1</sup>; Gayanga Weerasekera<sup>1</sup>; Megan H. Williams<sup>2</sup>; Robin M. Whyatt<sup>2</sup>; Larry L. Needham<sup>1</sup>; Dana B. Barr<sup>1</sup>; <sup>1</sup>*Centers for Disease Control and Prevention, Atlanta, GA;* <sup>2</sup>*Mailman School of Public Health, Columbia Univ., New York City, NY*
- ThP 238 **Pulsed Flow Modulation – A Novel Concept for Comprehensive 2D GCxGC-MS with Supersonic Molecular Beams;** Aviv Amirav; Marina Poliak; Alexander Gordin; Maya Kochman; *Tel-Aviv University, Tel-Aviv, Israel*
- ThP 239 **Determination of Dioxin-Like PCBs and 62 PCB Congeners in Fish using GC/MS and GC/MSD;** Junghyuck Suh; Geum-soon Oh; Jongok Lee; Gun-Jo Woo; *Korea Food and Drug Administration, Seoul, South Korea*
- ThP 240 **Determination of Diisopropylfluorophosphate in Rat Brain Tissue by Headspace Solid Phase Microextraction Gas Chromatography-Mass Spectrometry;** Meng Xu; Alvin V. Terry Jr; Michael G. Bartlett; *UGA, Athens, GA*
- ThP 241 **Accurate Mass Measurements and Molecular Ion Detection of Fluorinated Compounds with Gas Chromatography/Field Ionization ToF Mass Spectrometry;** Junichi Osuga<sup>1</sup>; Yoji Nakajima<sup>2</sup>; Masaaki Ubukata<sup>1</sup>; Akihiko Kusai<sup>1</sup>; Jun Tamura<sup>1</sup>; Charles Detmer<sup>3</sup>; <sup>1</sup>*JEOL Ltd., Akishima, Japan;* <sup>2</sup>*Asahi Glass Co. LTD, Yokohama, Japan;* <sup>3</sup>*JEOL USA, Inc., Peabody, MA*
- ThP 242 **GC/MS Studies on the Pentafluorobenzyl Oxime Derivatives of Long-chain Aliphatic Aldehydes and Ketones;** Viral V Brahmhatt<sup>1</sup>; Fong-Fu Hsu<sup>2</sup>; David A Ford<sup>1</sup>; <sup>1</sup>*Saint Louis University, Saint louis, MO;* <sup>2</sup>*Washington University, Saint Louis, MO*
- ThP 243 **Simultaneous Determination of Menthol and Methyl Salicylate in Human Plasma Using Liquid-Liquid Extraction, Gas Chromatography and Mass Spectrometric Detection;** Mark Leahy; Paul Severin; *Covance, Madison, WI*
- ThP 244 **Development and Application of Mass Spectrometric Methods to characterize a Substrate Co-Catalyzed Triple Organo-Cascade Reaction;** Peni P. Handayani;

POSTER SPACE

- ThP 245 Wolfgang Schrader; *Max-Planck-Institut für Kohlenforschung, Mülheim / Ruhr, Germany*  
**Detection of Nepetalactone in the Nepeta Cataria Plant by Direct Thermal Desorption GC/MS;** Ronald E. Shomo, II; Rob Frey; John J. Manura; *Scientific Instrument Services, Ringoes, NJ*
- ThP 246 **The Use of a Chromatographic Zone as an Inlet Device for GC-MS;** Harry Prest; Steven M. Fischer; *Agilent Technologies, Santa Clara, CA*
- ThP 247 **Fast Gas Chromatography Combustion Isotope Ratio Mass Spectrometry;** Gavin L. Sacks<sup>1</sup>; Ying Zhang<sup>2</sup>; J. Thomas Brenna<sup>2</sup>; <sup>1</sup>*Cornell University, NYSAES, Geneva, NY;* <sup>2</sup>*Cornell University, Ithaca, NY*

**BIOINFORMATICS: MISCELLANEOUS**  
**248 - 273**

- ThP 248 **Does Trypsin Cut Before Proline?;** Jesse M Rodriguez; Nitin Gupta; Pavel A Pevzner; *University of California, San Diego, La Jolla, CA*
- ThP 249 **Genomic Tree of Bacteria and Archaea Revealed by Whole Proteome Analysis;** Samir V. Deshpande<sup>1</sup>; Jacek P. Dworzanski<sup>2</sup>; Alan W. Zulich<sup>3</sup>; <sup>1</sup>*Science & Technology Corporation, Edgewood, MD;* <sup>2</sup>*SAIC, Aberdeen Proving Ground, MD;* <sup>3</sup>*U.S. Army Edgewood Chemical Biological Center, Aberdeen Proving Ground, MD*
- ThP 250 **A Computational Approach to the Identification of Site-specific Protein N-glycosylation using Mass Spectrometry;** Yin Wu; Yehia Mechref; Iveta Klouckova; Milos V. Novotny; Hai-xu Tang; *Indiana University, Bloomington, IN*
- ThP 251 **An Objective Organism-Based Evaluation of Tandem Mass Spectrometric Data Obtained from Proteomic Studies;** Konstantinos Thalassinos; Georgios Efstathiou; Susan E. Slade; James H. Scrivens; *University of Warwick, Coventry, United Kingdom*
- ThP 252 **Informatics Issues in Improving Reproducibility in Proteomics Experiments;** Sean L. Seymour; Wilfred H. Tang; Ignat V. Shilov; Alex Loboda; Alpesh A. Patel; Christie L. Hunter; Daniel A. Schaeffer; *Applied Biosystems|MDS Sciex, Foster City, CA*
- ThP 253 **E-value Calibration: Unifying the Statistical Significance Assignment for Database Search Methods;** Gelio Alves<sup>1</sup>; Aleksey Ogurtsov<sup>1</sup>; Wells W. Wu<sup>2</sup>; Guanghui Wang<sup>2</sup>; Rong-Fong Shen<sup>2</sup>; Yi-Kuo Yu<sup>1</sup>; <sup>1</sup>*National Center for Biotechnology Information, Bethesda, MD;* <sup>2</sup>*National Heart Lung and Blood Institute, Bethesda, MD*
- ThP 254 **Assessment of Error Rates in Database-Based Identification of MS/MS Spectra;** Olga Vitek<sup>1</sup>; Sandra Loevenich<sup>2</sup>; Ruedi Aebersold<sup>2</sup>; <sup>1</sup>*Purdue University, West Lafayette, IN;* <sup>2</sup>*IMSB, ETH, Zurich, Switzerland*
- ThP 256 **Comparison of Database Search Engine Expectation Values;** Aenoch Lynn; Peter Baker; Robert Chalkley; Alma Burlingame; *University of California, San Francisco, San Francisco, CA*
- ThP 257 **Automatic in Silico Interpretation of Native N-Glycopeptide Stopflow MS2 CID Spectra Acquired from a Mixture of Unknown Glycoproteins;** Sakari Joenväärä<sup>1</sup>; Ilja Ritamo<sup>1</sup>; Hannu Peltoniemi<sup>1</sup>; Risto Renkonen<sup>2</sup>; <sup>1</sup>*MediCel Ltd, Helsinki, FINLAND;* <sup>2</sup>*University of Helsinki, Helsinki, Finland*
- ThP 258 **Comparison of Statistical Approaches for Validation of Proteomic Datasets;** D. Brent Weatherly<sup>1</sup>; James A. Atwood<sup>2</sup>; Lin Lin<sup>2</sup>; Fernanda Ludolf<sup>3</sup>; Gretchen M.

THURSDAY POSTERS

POSTER SPACE

- Cooley<sup>1</sup>; Arthur Nuccio<sup>2</sup>; Rick L. Tarleton<sup>1</sup>; Ron Orlando<sup>2</sup>; <sup>1</sup>Center for Tropical and Emerging Global Disease, Athens, GA; <sup>2</sup>Complex Carbohydrate Research Center, Athens, GA; <sup>3</sup>Programa de Pós-Graduação e Pesquisa da Santa Casa, Belo Horizonte – MG, Brazil; <sup>4</sup>BioInquire, LLC, Athens, GA
- ThP 259 **The Use of MALDI/MS, LC/MS and Artificial Neural Networks for Detecting Serum Biomarkers of Growth Hormone Administration in Human Subjects;** Joshua Boateng<sup>1</sup>; Richard Kay<sup>2</sup>; Steve Beech<sup>3</sup>; Lee Lancashire<sup>1</sup>; Pamela Brown<sup>2</sup>; Shi Yu Yang<sup>3</sup>; Phil Teale<sup>2</sup>; Jane Roberts<sup>2</sup>; Graham Ball<sup>1</sup>; MC Winslet<sup>3</sup>; Geoffrey Goldspink<sup>3</sup>; Colin Creaser<sup>1</sup>; <sup>1</sup>Nottingham Trent University, Nottingham, United Kingdom; <sup>2</sup>HFL Ltd, Fordham, United Kingdom; <sup>3</sup>Royal Free and University College Medical School, London, United Kingdom
- ThP 260 **The Effect of Precursor Ion Mass Accuracy and Database Search Tolerance in the Identification of Proteins from Complex Samples;** Ioannis Papayannopoulos; M.I.T. Center for Cancer Research, Cambridge, MA
- ThP 261 **Alteration of the Amino Acid Sequence Information According to Protein Knowledge;** Harunobu Yunokawa<sup>1</sup>; Junko Ozaki<sup>1</sup>; Shinji Sato<sup>1</sup>; Katsunori Yoda<sup>1</sup>; Takao Kawakami<sup>2</sup>; <sup>1</sup>Maze, Inc., Tokyo, Japan; <sup>2</sup>Tokyo Medical University, Tokyo, Japan
- ThP 262 **The Identification of Sulphur-Containing Peptides in the LCMS Analysis of Protein Digests;** Tony Ferrige<sup>1</sup>; Stuart Ray<sup>1</sup>; Robert Alecio<sup>1</sup>; Lewis Pannell<sup>2</sup>; <sup>1</sup>Positive Probability Limited, Cambridgeshire, United Kingdom; <sup>2</sup>Mitchell Cancer Institute, U. of S. Alabama, Mobile, AL
- ThP 263 **Investigation of Ty3 Retrotransposon Protein Processing Utilizing Targeted Proteomics Data Acquisition and Mining;** Jeffrey J. Jones; Stuart Arfin; Becky Irwin; Suzanne Sandmeyer; Lan Huang; University of California Irvine, Irvine, CA
- ThP 264 **Assigning Proteins with Confidence – Applying Peptide Detectability to the Protein Inference Problem;** Pedro Alves; Randy J. Arnold; Milos V. Novotny; James P. Reilly; Predrag Radivojac; Haixu Tang; Indiana University, Bloomington, IN
- ThP 265 **Single Peptide Protein Characterisation, Including Function and Structural Fold Annotation, Based on Highly-Significant Signature Peptides Detected within Three Million Proteins;** Ian Humphrey-smith; Shane Sturrock; Fiona McDonald; Biosystems Informatics Institute, Newcastle upon Tyne, United Kingdom
- ThP 266 **Rapid Protein Identification & Quantification from FTMS Data;** Rob Grothe; Darren Kessner; Jonathan Katz; David Agus; Parag Mallick; Cedars-Sinai Medical Center, Los Angeles, CA
- ThP 267 **Systems Biology of Glycolysis Integrated Analysis of Dynamic DNA-Protein and Protein-Protein Complexes, Transcriptomics and Metabolites;** Ville Parviainen<sup>2</sup>; Sakari Joenväärä<sup>1</sup>; Ilja Ritamo<sup>1</sup>; Pirkko Mattila<sup>1</sup>; Juha-Pekka Pitkänen<sup>1</sup>; Jouni Ahtinen<sup>1</sup>; Risto Renkonen<sup>2</sup>; <sup>1</sup>MediCel Ltd, Helsinki, Finland; <sup>2</sup>University of Helsinki, Helsinki, Finland
- ThP 268 **A Local Interaction/Disruption Network using Histone Deacetylase Complex Based Proteomic Data;** Joshua M. Gilmore<sup>1</sup>; Mihaela E. Sardi<sup>1</sup>; Laurence Florens<sup>1</sup>; Michael J. Carrozza<sup>2</sup>; Bing Lee<sup>1</sup>; Jerry L. Workman<sup>1</sup>; Michael P. Washburn<sup>1</sup>; <sup>1</sup>Stowers Institute

POSTER SPACE

- for Medical Research, Kansas City, MO; <sup>2</sup>National Institute of Environmental Health Science, Research Triangle Park, North Carolina
- ThP 269 **Reconstruction of Peptide Sequences from de novo Sequences and their Homologues;** Weijie Yang<sup>1</sup>; Denis Yuen<sup>1</sup>; Bin Ma<sup>2</sup>; Iain Rogers<sup>1</sup>; <sup>1</sup>Bioinformatics Solutions Inc., Waterloo, Canada; <sup>2</sup>University of Western Ontario, London, Canada
- ThP 270 **Effects of Growth Temperature When Discriminating Bacteria using Pyrolysis Gas Chromatography Differential Mobility Spectrometry (Py-GC/DMS) and Principal Component Analysis (PCA);** Satendra Prasad<sup>1</sup>; Karisa M Pierce<sup>2</sup>; Hartwig Schmidt<sup>1</sup>; Jaya V Rao<sup>1</sup>; Robert Gueth<sup>1</sup>; Sabine Bader<sup>3</sup>; Geoffrey B Smith<sup>1</sup>; Robert E Synovec<sup>2</sup>; Gary A Eiceman<sup>1</sup>; <sup>1</sup>New Mexico State University, Las Cruces, New Mexico; <sup>2</sup>University of Washington, Seattle, Washington; <sup>3</sup>University of Dortmund, Dortmund, Germany
- ThP 271 **GelKeys: A Software Application for 2D Gel Image Storage, Markup, and Sharing;** Kip L Bodl<sup>1</sup>; Francesca Lavatelli<sup>2</sup>; David H Perlman<sup>2</sup>; Mark E McComb<sup>2</sup>; James West<sup>2</sup>; Catherine E Costello<sup>3</sup>; Martha Skinner<sup>1</sup>; David C Seldin<sup>4</sup>; <sup>1</sup>Amyloid Treatment and Research Program, BUSM, Boston, MA; <sup>2</sup>Cardiovascular Proteomics Center, BUSM, Boston, MA; <sup>3</sup>Mass Spectrometry Resource, BUSM, Boston, MA; <sup>4</sup>Department of Medicine, BUSM, Boston, MA; <sup>5</sup>Amyloid Program, University Hospital San Matteo, Pavia, Italy
- ThP 272 **First-Level Substitution-Tolerant Database Searching Accounts for Genomic Variability in the Identification of Proteins from Organisms with Poorly Characterized Genomes;** Jesús Jorin Novo<sup>1</sup>; Rafael M. Navarro Cerillo<sup>1</sup>; Christof E. Lenz<sup>2</sup>; Sean Seymour<sup>3</sup>; <sup>1</sup>University of Cordoba, Cordoba, Spain; <sup>2</sup>Applied Biosystems Germany, Darmstadt, Germany; <sup>3</sup>Applied Biosystems, Foster City, CA
- ThP 273 **Elucidation of Reasons for Unexplained Good Quality MS/MS Spectra In Proteomic Studies;** Daniel C. Chamrad<sup>1</sup>; Gerhard Koerting<sup>1</sup>; Christian Stephan<sup>2</sup>; Helmut E. Meyer<sup>2</sup>; Katrin Marcus<sup>2</sup>; Martin Blueggel<sup>1</sup>; <sup>1</sup>Protagen AG, Dortmund, Germany; <sup>2</sup>Medizinisches Proteom-Center, Bochum, Germany; <sup>3</sup>Bruker Daltonik GmbH, Bremen, Germany

CARBOHYDRATES & OLIGOSACCHARIDES IV  
274 - 288

- ThP 274 **Novel Glycomic Platform for Biomarker Analysis;** Clementine Klemm; Begona Casado; Bruno Domon; ETH, Zürich, Switzerland
- ThP 275 **Off-line Capillary LC Coupled to a Glycan Analysis System Utilizing MALDI-QIT-TOF MS and an Observed MS<sub>n</sub> Spectral Library;** Hiroimi Ito<sup>1</sup>; Masako Sukegawa<sup>1</sup>; Shuuichi Nakaya<sup>2</sup>; Shinji Funatsu<sup>2</sup>; Akihiko Kameyama<sup>1</sup>; Hisashi Narimatsu<sup>1</sup>; <sup>1</sup>Research Center for Medical Glycoscience, AIST, Tsukuba, Japan; <sup>2</sup>Shimadzu Corp., Nakagyo-ku, Japan
- ThP 276 **Electrospray Ionization-Four Transform Ion Cyclotron Resonance Mass Spectrometry of Long Chain Polysaccharides;** Irina Perdivara<sup>1</sup>; Eugen Sisu<sup>4</sup>; Ioana Sisu<sup>3</sup>; Michael Przybylski<sup>1</sup>; Alina D. Zamfir<sup>2</sup>; <sup>1</sup>University of Konstanz, Konstanz, Germany; <sup>2</sup>"Aurel Vlaicu" University of Arad, Arad, Romania; <sup>3</sup>Romanian Academy - Institute of Chemistry, Timisoara, Romania; <sup>4</sup>University of Medicine and Pharmacy, Timisoara, Romania

THURSDAY POSTERS

POSTER SPACE

- ThP 277 **FTICR and Ion Trap MS Define the Nature of Chemokine Heparan Sulfate Interactions;** Matthew R. Schenauer; Yonghao Yu; Matthew D. Sweeney; Julie A. Leary; *University of California, Davis, Davis, CA*
- ThP 278 **Resolution Of N-Linked Glycans from Ovalbumin using Ion Mobility - Mass Spectrometry (IMS-MS);** Manolo D. Plasencia; Samuel I. Merenbloom; Stormy L. Koeniger; Dragan Isailovic; Yehia Mechref; David E. Clemmer; *Indiana University, Bloomington, IN*
- ThP 279 **Heparin-Protein Binding: An Interaction Model Emerging from a Combinatorial Approach;** Rinat R. Abzalimov; Paul L. Dubin; Igor A. Kaltashov; *University of Massachusetts, Amherst, MA*
- ThP 280 **Developing a Strategy for LC-MS Analysis of Glycopeptides Using Alpha-1-Acid Glycoprotein (AAG);** Melanie M. Ivancic<sup>1</sup>; Himanshu S. Gadgil<sup>1</sup>; David M. Hambly<sup>1</sup>; Gary D. Pipes<sup>1</sup>; H. Brian Halsall<sup>2</sup>; Michael J. Treuheit<sup>1</sup>; *Amgen Inc., Thousand Oaks, CA;* <sup>2</sup>*University of Cincinnati, Cincinnati, OH*
- ThP 281 **Profiling Bacterial Fermentation of Fructooligosaccharides (FOS) by MALDI-FTICR MS;** Mariana Barboza; Richard R. Seipert; Riccardo G. LoCascio; David A. Mills; Carlito B. Lebrilla; *University of California Davis, Davis, CA*
- ThP 282 **Chip-based Normal Phase LC/MS for Glycomics of N-Linked Glycans And Glycosaminoglycans;** Alicia M. Hitchcock<sup>1</sup>; Michael J. Bowman<sup>1</sup>; Catherine E. Costello<sup>1</sup>; James Lau<sup>2</sup>; Rudolf Grimm<sup>2</sup>; Joseph Zaia<sup>1</sup>; *<sup>1</sup>Boston University, Boston, MA;* *<sup>2</sup>Agilent Technologies, Inc., Santa Clara, CA*
- ThP 283 **An LC/MS Platform for Glycomics Analysis of *Caenorhabditis elegans* Glycosaminoglycans;** Gregory O Staples; Mike J. Bowman; Nancy Leymarie; Catherine E. Costello; John F. Cipollo; Joseph Zaia; *Boston University School of Medicine, Boston, MA*
- ThP 284 **Ion mobility Coupled with TOF MS for the Automated Assignment of Glycoconjugates in the Urine of Patients with Inherited Disorders;** Sergey Y. Vakhrushev<sup>1</sup>; James Langridge<sup>2</sup>; Chris Hughes<sup>2</sup>; Ian Campuzano<sup>2</sup>; Hans Vissers<sup>2</sup>; Therese McKenna<sup>2</sup>; Jasna Peter-Katalinic<sup>1</sup>; *<sup>1</sup>Institute for Medical Physics and Biophysics, Muenster, Germany;* *<sup>2</sup>Waters Corporation, Manchester, UK*
- ThP 285 **Rapid Automated Identification of Urine Glycoconjugates by Ion Mobility Separation MS and MS/MS and Computer Assignment;** Sergey Y. Vakhrushev<sup>1</sup>; Chris Hughes<sup>2</sup>; James Langridge<sup>2</sup>; Ian Campuzano<sup>2</sup>; Hans Vissers<sup>2</sup>; Therese McKenna<sup>2</sup>; Jasna Peter-Katalinic<sup>1</sup>; *<sup>1</sup>Institute for Medical Physics and Biophysics, Muenster, Germany;* *<sup>2</sup>Waters Corporation, Manchester, UK*
- ThP 286 **Analysis of N-linked Glycans from Human Plasma by IMS-MS;** Sarah Trimpin; Manolo Plasencia; Dragan Isailovic; Samuel Merenbloom; Yehia Mechref; Milos Novotny; David Clemmer; *Indiana University, Bloomington, IN*
- ThP 287 **Use of Isomeric Butyl Ketoximes in the Identification of Isomeric Fructosylamino Acids by Gas-Liquid Chromatography/Triple Quadrupole Mass Spectrometry;** Thomas P. Mawhinney; Deborah L. Chance; Valeri V. Mossine; Nancy Cassidy; James K. Waters; *University of Missouri, Columbia, MO*
- ThP 288 **Enhanced Neutral Glycan Separation via Mobile Phase Optimization;** Samantha Phan; Sharon Gao; Alex Buko; *Biogen Idec, San Diego, CA*

POSTER SPACE

- | DRUG METABOLISM: QUANTITATION<br>289 - 306 |  |
|--|--|
| ThP 289                                    | <b>Application of Column-Switching With Ultra High Performance Liquid Chromatography for the Quantitative Analysis of Pharmaceuticals In Plasma;</b> <u>Gunter Boehm</u> <sup>1</sup> ; Michel Wagner <sup>2</sup> ; Emmanuel Varesio <sup>2</sup> ; Chantal Grivet <sup>2</sup> ; Gerard Hopfgartner <sup>2</sup> ; <i><sup>1</sup>Thermo Scientific, Basel, Switzerland;</i> <i><sup>2</sup>University of Geneva, Geneva, Switzerland</i>  |
| ThP 290                                    | <b>Ambient Temperature Effects on Quantitative Bioanalytical LC-MS/MS Analysis;</b> <u>John D. Sowell</u> ; Michael S. Alexander; <i>Bioanalytical Systems, Inc., McMinnville, OR</i>  |
| ThP 291                                    | <b>Simultaneous Metabolite Identification and Quantitation of Parent Drug using Reverse Energy Ramp Scanning on a Triple Stage Quadrupole Mass Spectrometer;</b> <u>Qin Yue</u> <sup>1</sup> ; Louis Maljers <sup>2</sup> ; Yan Chen <sup>2</sup> ; YungHsiang Chen <sup>1</sup> ; Patrick Rudewicz <sup>1</sup> ; <i><sup>1</sup>Genentech, Inc, South San Francisco, CA;</i> <i><sup>2</sup>ThermoFisher, Inc, San Jose, CA</i>  |
| ThP 292                                    | <b>Sensitive Assays using SPE and HILIC-LC-MS/MS for Quantification of Oseltamivir and Zanamivir – the Birdflu Drugs;</b> <u>Niklas Lindegardh</u> <sup>1</sup> ; Tran T Hien <sup>3</sup> ; Jeremy Farrar <sup>3</sup> ; Nicholas P J Day <sup>1</sup> ; Nicholas J White <sup>1</sup> ; <i><sup>1</sup>Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand;</i> <i><sup>2</sup>Oxford University, Oxford, UK;</i> <i><sup>3</sup>Hospital for Tropical diseases, Ho Chi Minh City, Vietnam;</i> <i><sup>4</sup>SEA Influenza Clinical Research Network</i> |
| ThP 293                                    | <b>LC-ES/MS/MS Analysis of Soy Isoflavones in Prostate and Plasma from Men Undergoing Prostate Cancer Surgery;</b> <u>Mona I. Churchwell</u> <sup>1</sup> ; Omer Kucek <sup>2</sup> ; Howard Parnes <sup>3</sup> ; Fazlul H. Sarkar <sup>2</sup> ; Wael Sarkar <sup>2</sup> ; Edson Pontes <sup>2</sup> ; Michael Cher <sup>2</sup> ; Daniel R. Doerge <sup>1</sup> ; <i><sup>1</sup>National Center for Toxicological Research, Jefferson, AR;</i> <i><sup>2</sup>Karmanos Cancer Institute, Detroit, MI;</i> <i><sup>3</sup>National Cancer Institute, Bethesda, MD</i>    |
| ThP 294                                    | <b>LC/MS/MS Determination of Tetrahydrobiopterin (BH4) in Human Plasma by Measuring L-Biopterin Concentration upon Oxidation under Basic Condition;</b> <u>Yuwen Zhao</u> <sup>1</sup> ; Yongdong Zhu <sup>1</sup> ; Saloumeh Jazayeri <sup>1</sup> ; Jerry Cao <sup>1</sup> ; Yuan-shek Chen <sup>1</sup> ; Jamie Zhao <sup>1</sup> ; Benjamin Chien <sup>1</sup> ; Erik Foehr <sup>2</sup> ; <i><sup>1</sup>Quest Pharmaceutical Services, LLC, Newark, DE;</i> <i><sup>2</sup>BioMarin Pharmaceuticals, Inc., Novato, CA</i>  |
| ThP 295                                    | <b>Urea Increases Extraction Recovery and Assay Specificity for Drug Analysis In Human Breast Milk using LC-MS/MS;</b> <u>Laixin Wang</u> <sup>1</sup> ; Min Meng <sup>1</sup> ; Scott Merkle <sup>1</sup> ; Patrick Bennett <sup>1</sup> ; Cheryl Spencer <sup>2</sup> ; <i><sup>1</sup>Tandem Labs, Salt lake City, UT;</i> <i><sup>2</sup>Immtech Pharmaceuticals, Inc., Vernon Hills, IL</i>   |
| ThP 296                                    | <b>High Speed Analysis of <math>\beta</math>- Blockers and Metabolites in Human Plasma by LC/ESI+MS/MS with High pH Mobile Phase;</b> <u>Liming Peng</u> ; Tivadar Farkas; <i>Phenomenex Inc., Torrance, CA</i>  |
| ThP 297                                    | <b>Pharmacokinetic Analysis of Methylphenidate (Ritalin®) and Its Main Metabolite, Ritalinic Acid, in Mice using LC-ES/MS/MS;</b> <u>Nathan C. Twaddle</u> ; Daniel R. Doerge; <i>Food and Drug Administration, Jefferson, AR</i>  |
| ThP 298                                    | <b>Ultra-Sensitive Quantification of Corticosteroids using Selective Solid Phase Extraction And Reversed-Phase Capillary High Performance Liquid Chromatography Tandem Mass;</b> <u>Jun Qu</u> <sup>1</sup> ; Yang Qu <sup>1</sup> ; Jin Cao <sup>2</sup> ; Robert Straubinger <sup>1</sup> ; <i><sup>1</sup>University at Buffalo,</i>  |

THURSDAY POSTERS

POSTER SPACE

- Amherst, NY; <sup>2</sup>NY Centr of Excellence in bioinformatics & life Sc, Buffalo, NY
- ThP 300 **LC-MS Quantitation with Data Dependent Full Scan Product Ion Confirmation: Increased Confidence via Interference Reducing FAIMS and H-SRM; James Kapron**<sup>1,2</sup>; Laurance Lee<sup>1,2</sup>; <sup>1</sup>Thermo Fisher, Ottawa, Canada; <sup>2</sup>Thermo Fisher, San Jose, CA
- ThP 301 **Characterization of Penicillin-G Instability in Equine Plasma by Negative Ion Electrospray MSn Ion Tree Experiments Using a Linear Ion Trap; Jeffrey Rudy**<sup>1</sup>; **Rongfang Xu**<sup>2</sup>; Cornelius Uboh<sup>2</sup>; Joseph Dibussolo<sup>3</sup>; <sup>1</sup>PA Equine Toxicology, West Chester, PA; <sup>2</sup>University of Pennsylvania New Bolton Vet Center, Kennet Square, PA; <sup>3</sup>ThermoFisher, Franklin, MA
- ThP 302 **Development and Validation of a Method for the Enantiomeric Quantitation of Amphetamine in Human Plasma by Chiral LC/MS/MS; Daniel E Mulvana**; Dale A Campbell; Erika Moore; *Advion BioServices, Ithaca, NY*
- ThP 303 **Quantification of Humanized Therapeutic Antibodies in Human Serum by Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS); Mathieu Dubois**<sup>1</sup>; Jean-Claude Tabet<sup>2</sup>; Berend Neuteboom<sup>3</sup>; Eric Ezan<sup>1</sup>; **Francois Becher**<sup>1</sup>; <sup>1</sup>CEA-Service de Pharmacologie et d'Immunoanalyse, Gif sur Yvette Cedex, France; <sup>2</sup>LCSOB Université Pierre et Marie Curie, Paris, France; <sup>3</sup>Drug Metabolism and Pharmacokinetics, Merck KGaA, Grafing, Germany
- ThP 304 **Determination of Ziprasidone in Rat Plasma and Brain Tissue by LC-MS/MS; Guodong Zhang**<sup>1</sup>; Alvin V. Terry Jr.<sup>2</sup>; Michael G. Bartlett<sup>1</sup>; <sup>1</sup>University of Georgia, Athens, GA; <sup>2</sup>Medical College of Georgia, Augusta, GA
- ThP 305 **Analysis of Poly-γ-Glutamated Isoforms of Pemetrexed by UPLC and Ion Trap Mass Spectrometry; David L. Hachey**<sup>1</sup>; Victor J. Chen<sup>2</sup>; <sup>1</sup>Vanderbilt University, Nashville, TN; <sup>2</sup>Lilly Research Laboratories, Indianapolis, IN
- ThP 306 **Method Development and Validation for the Determination of Triamcinolone Acetonide in Human Plasma by LC/MS/MS; Juan Fan**; Chrysantha Xavier; Nicola Hughes; *Biovail Contract Research, Toronto, Canada*

**LIPIDS: OXIDIZED BIOCHEMISTRY & STEROIDS**  
307 - 324

- ThP 307 **Identification of Oxidized Lipid Mediators in Human Plasma; Celeste Ptak**<sup>1</sup>; Robert C. Block<sup>2</sup>; J. Thomas Brenna<sup>1</sup>; <sup>1</sup>Cornell University, Ithaca, NY; <sup>2</sup>University of Rochester, Rochester, NY
- ThP 308 **A Novel Lipase Activity Assay by Quantitative Analysis of Fatty Acid via LC-MS; Gang Hao**; Lan Yang; Istvan Mazsaroff; Melanie Lin; *Altus Pharmaceuticals, Cambridge, MA*
- ThP 309 **Progress Toward Newborn Screening for X-Linked Adrenoleukodystrophy (X-ALD) Via Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS); Walter C. Hubbard**<sup>1</sup>; Ann B. Moser<sup>2</sup>; Anita K. Liu<sup>2</sup>; David S. Jones<sup>2</sup>; <sup>1</sup>Johns Hopkins Hospital, Osler 505, Baltimore, MD; <sup>2</sup>Kennedy-Krieger Institute, 700 North Broadway, Baltimore, MD
- ThP 310 **Correlation of Several Isoprostanes with Human Smoking Behavior; Weiyang Yan**<sup>1</sup>; Gary D. Byrd<sup>2</sup>; Michael W. Ogden<sup>2</sup>; <sup>1</sup>Wake Forest University, Winston Salem, NC; <sup>2</sup>R.J.Reynolds Tobacco. Company, Winston Salem, NC

POSTER SPACE

- ThP 311 **LC-MS and LC-MS/MS Analysis of Bile from Mice Infected with *Listeria monocytogenes*; Karolina M. Krasinska**<sup>1</sup>; Jonathan W. Hardy<sup>2</sup>; Lindsay M. Comeaux<sup>1</sup>; Christopher H. Contag<sup>2</sup>; Allis S. Chien<sup>1</sup>; <sup>1</sup>SU Mass Spectrometry, Stanford University, Stanford, CA; <sup>2</sup>Dept. of Pediatrics, Stanford School of Medicine, Stanford, CA
- ThP 312 **In vitro Study of Glycooxidative Modified Low Density Lipoproteins using a Lipoproteomic Approach; Alan Barnes**<sup>1</sup>; Gerald Stubiger<sup>2</sup>; Grazyna Sobal<sup>2</sup>; **Omar Belgacem**<sup>1</sup>; <sup>1</sup>Shimadzu Biotech, Manchester, UK; <sup>2</sup>Institute of Chemical Technologies and Analysis, TU Vienna, Austria
- ThP 313 **Direct Identification and Characterization of Oxidized Analogs of Platelet Activating Factor by LC-MS/MS; Xi Chen**<sup>1</sup>; Gopal K Marathe<sup>2</sup>; Wujuan Zhang<sup>1</sup>; Thomas M McIntyre<sup>2</sup>; Stanley L Hazen<sup>2</sup>; Robert G Salomon<sup>1</sup>; <sup>1</sup>Case Western Reserve University, Cleveland, OH; <sup>2</sup>Cleveland Clinic, Cleveland, OH
- ThP 314 **Quantitation of Human Urinary F2-Isoprostanes and their Metabolites by Mixed-Mode SPE and HPLC-MS-MS; Alan W. Taylor**<sup>1</sup>; Richard S. Bruno<sup>2</sup>; Maret G. Traber<sup>1</sup>; <sup>1</sup>Oregon State University, Corvallis, OR; <sup>2</sup>University of Connecticut, Storrs, CT
- ThP 315 **Bioconjugation of Lipid Peroxidation Products: A New Role for Vitamin C?; Jan F. Stevens**; Ralph Reed; Alan W. Taylor; Ruth Gordillo; Cristobal L. Miranda; *Oregon State University, Corvallis, OR*
- ThP 316 **Determination of Ergosterol by HPLC-MS from Whole Grain Samples Utilizing a Novel APCI Interface; Mark Busman**; *USDA-ARS, Peoria, IL*
- ThP 317 **Quantitative Analysis of Dihydroxyeicosatrienoic Acids by Stable Isotope Dilution Chiral LC-Electron Capture APCI/MS; Clementina Mesaros**; Seon Hwa Lee; Ian Blair; *University of Pennsylvania, Philadelphia, PA*
- ThP 318 **Mass Spectrometric Quantification of Long Chain Fatty Acyl-Coenzyme A (LCFA) Compounds in Rodent Diabetic Tissue; Kathleen R. Noon**; Jaeman Byun; Anuradha Vivekanandan-Giri; Subramaniam Pennathur; *University of Michigan, Ann Arbor, MI*
- ThP 319 **Characterizing High Molecular Weight Wax Esters by Matrix-Assisted Laser Desorption/Ionization – Time of Flight Mass Spectrometry; Vladimir Vrkoslav**; Miloslav Šanda; Josef Cvacka; *Institute of Organic Chemistry and Biochemistry, Prague 6, Czech Republic*
- ThP 320 **Mass Spectrometry of Deuterated and Primary Sterols for Quantitative Analysis by HPLC-ESI-MS; Jeffrey G. McDonald**<sup>1</sup>; Jeff D. Moore<sup>2</sup>; Erin C. McCrum<sup>1</sup>; William V. Caufield<sup>2</sup>; Walter A. Shaw<sup>2</sup>; <sup>1</sup>UT Southwestern Medical Center, Dallas, TX; <sup>2</sup>Avanti Polar Lipids, Alabaster, AL
- ThP 321 **Development of a Simplified LC/MS/MS Method for Quantitation of 2-arachidonylglycerol (2-AG) and Arachidonylethanolamide (AEA) in Mouse Tissues and 3T3-L1 Adipocytes; Kerry A. Pierce**<sup>1</sup>; Tara M. D'Eon<sup>2</sup>; Sandra R. Teixeira<sup>1</sup>; Andrew N. Tyler<sup>1</sup>; <sup>1</sup>Novartis Institutes for Biomedical Research, Cambridge, MA; <sup>2</sup>Elixir Pharmaceuticals, Cambridge, MA
- ThP 322 **Inclusion Complex Based Solid-Phase Extraction of Urinary Steroids with Polymerized β-cyclodextrin Powder; Ju-Yeon Moon**; Bong Chul Chung; Man-Ho Choi; *Life Sciences Division / KIST, Seoul, South Korea*

THURSDAY POSTERS

POSTER SPACE

- ThP 323 **Isolation and Relative Quantification of Phosphatidylserine from Vascular Endothelial Cells;** Julie K Freed<sup>1</sup>; Michael S Shortreed<sup>2</sup>; Brian L Frey<sup>2</sup>; Christopher J Kleefisch<sup>1</sup>; Lloyd M Smith<sup>2</sup>; Andrew S Greene<sup>1</sup>; <sup>1</sup>Medical College of Wisconsin, Milwaukee, WI; <sup>2</sup>University of Wisconsin, Madison, WI
- ThP 324 **Diet-Induced Insulin Resistance and Sphingolipid Profiles in Rats: A 2D Lipidomic Approach;** Todd W Mitchell<sup>1</sup>; Nigel Turner<sup>2</sup>; Kim Ekroos<sup>3</sup>; A. J. Hulbert<sup>1</sup>; Paul L. Else<sup>1</sup>; Stephen J. Blanksby<sup>1</sup>; <sup>1</sup>University of Wollongong, Wollongong, Australia; <sup>2</sup>Garvan Institute of Medical Research, Sydney, Australia; <sup>3</sup>Astrazeneca R&D, Molndal, Sweden

NUCLEIC ACIDS II  
325 - 339

- ThP 325 **Identification and Deamination of New DNA Photoproducts;** Dian Su; Washington University, St Louis, MO
- ThP 326 **Structural Characterization of a Short Interfering RNA Duplex by Non-Denaturing Ion-Pair Reversed-Phase HPLC Electrospray Ionization Mass Spectrometry;** Scott A. Young; Marsha Langhorst; Mike Fazio; Krishna Kuppannan; *The Dow Chemical Company, Midland, MI*
- ThP 327 **Selective Detection of Sugar-Nucleotides in an Engineered *E. coli* Host by HILIC-MS;** Joseph P. M. Hui<sup>1</sup>; Jie Yang<sup>2</sup>; Jon S. Thorson<sup>2</sup>; Evelyn C. Soo<sup>1</sup>; <sup>1</sup>NRC - Institute for Marine Biosciences, Halifax, Canada; <sup>2</sup>School of Pharmacy, University of Wisconsin, Madison, WI
- ThP 328 **Top-down Analysis of Transfer RNA via Ion Trap Tandem Mass Spectrometry;** Teng-yi Huang; Xiaorong Liang; Jian Liu; Yu Xia; Scott McLuckey; *Purdue University, West Lafayette, IN*
- ThP 329 **Promoted to Oral TOC am 9:55**
- ThP 330 **Heterocyclic Aromatic Amines and DNA Adducts: Investigation of Reactivity from Model Systems;** Emilien L. Jamin; Delphine Arquier; Jacques Tulliez; Laurent Debrauwer; *UMR1089 Xenobiotiques INRA-ENVT, Toulouse, France*
- ThP 331 **Quantitation of Oligonucleotide by Isotope Dilution Mass Spectrometry;** Tomoya Kinumi; Akiko Takatsu; *AIST/NMIJ Bio-Medical Standards Section, Tsukuba, Ibaraki, Japan*
- ThP 332 **Antisense Oligonucleotide and siRNA Sequencing using Quadrupole Time of Flight (Q-TOF) and Hybrid Linear Ion Trap - FTMS (LTQ-FT) instruments;** Jeffrey Gilbert; Scott Young; Mike Fazio; Larry Nicholson; Marsha Langhorst; *The Dow Chemical Company, Midland, MI*
- ThP 333 **Sequence-Specific Exonuclease Digestion of Modified Oligonucleotides Investigated by LC/MS;** M. Paul Chiarelli<sup>1</sup>; Lan Gao<sup>1</sup>; Yuyuan Li<sup>2</sup>; Li Zhang<sup>2</sup>; Bongsup Cho<sup>2</sup>; <sup>1</sup>Loyola University, Chicago, IL; <sup>2</sup>University of Rhode Island, Kingston, RI
- ThP 334 **Sodium Binding Affinity of 3-Methyladenine;** Bethany Subel<sup>1</sup>; Ping Wang<sup>1</sup>; Chrys Wesdemiotis<sup>1</sup>; <sup>1</sup>University of Akron, Akron, OH; <sup>2</sup>Noveon, Inc., Brecksville, OH
- ThP 335 **Antisense Oligonucleotide Metabolite Identification Utilizing Ion-Pair HPLC-MS/MS;** Hans J Gaus<sup>1</sup>; Len L Cummins<sup>2</sup>; Steven A Hofstadler<sup>2</sup>; <sup>1</sup>Isis Pharmaceuticals, Inc., Carlsbad, CA; <sup>2</sup>Ibis Biosciences, Carlsbad, CA
- ThP 336 **The Influence of Cytosine Methylation on the Chemoselectivity of Benzo[A]Pyrene Diol Epoxide-**

POSTER SPACE

- Oligonucleotide Adducts Determined using nano LC-MS/MS;** Wennan Xiong<sup>1</sup>; James Glick<sup>1</sup>; Yiqing Lin<sup>1</sup>; Anne M. Noronha<sup>2</sup>; Christopher J. Wilds<sup>2</sup>; Paul Vouros<sup>1</sup>; <sup>1</sup>northeastern University, Boston, MA; <sup>2</sup>Concordia University, Montreal, Quebec, Canada
- ThP 337 **Gas-Phase Ion-Electron Reactions of Modified Oligonucleotides in a Fourier Transform Ion Cyclotron Resonance Mass Spectrometer;** Jiong Yang; Kristina Håkansson; *University of Michigan, Ann Arbor, MI*
- ThP 338 **Analysis of 8-oxoguanine, 8-oxoguanosine and 8-oxo-2'-deoxyguanosine in Human Urine by High Performance Liquid Chromatography-Electrospray Tandem Mass Spectrometry;** Bhaskar Malavappan; Timothy Garrett; christiaan Leeuwenburgh; *Univ of Florida, Gainesville, Florida, FL*
- ThP 339 **Base Excision Repair of an Oligonucleotide Containing Deoxyuracil;** Walter E. Rudzinski; Ed Cen; Ronald B. Walter; *Texas State University-San Marcos, San Marcos, TX*

NATURAL PRODUCTS II  
340 - 353

- ThP 340 **Chiral Recognition of Phthaloylglutamic Acid and Its Derivatives by Electro Spray Ionization and Matrix Assisted Laser Desorption Techniques;** Suma Ramagiri; Renuka Gupte; Igor Rakov; Ryan Charles Yates; Duane Miller; *University of Tennessee Health Science, Memphis, TN*
- ThP 341 **Improved Ionization Efficiency and Rapid Identification/Quantification of Phenolic Compounds in Food Products by Negative ion ESI Capillary LC/MS/MS;** Carina S. Minardi<sup>1</sup>; Christine A. Hughey<sup>1</sup>; Lilian M. Were<sup>1</sup>; Bruce E. Wilcox<sup>2</sup>; <sup>1</sup>Chapman University, Orange, CA; <sup>2</sup>Eksigent Technologies, Dublin, CA
- ThP 342 **Fingerprint Analysis of Acylated Flavonol Tetraglycosides in Oolong Teas using SPE-LC/MSn;** Jianpeng Dou; Chiou-Shu Lin; Viola S.Y. Lee; Jason T.C. Tzen; Maw-rong Lee; *National Chung-Hsing University, Taichung, TAIWAN*
- ThP 343 **MSn Analysis of Natural Nutraceutical Supplements;** Helen V. Montgomery<sup>1</sup>; Joy M. Ginter<sup>2</sup>; Koichi Tanaka<sup>3</sup>; <sup>1</sup>Shimadzu, Koichi Tanaka MS Research laboratory, Manchester, United Kingdom; <sup>2</sup>Shimadzu Scientific Instruments, Inc., Columbia, MD; <sup>3</sup>Shimadzu Corporation, Kyoto, Japan
- ThP 344 **A Fast and Accurate LC/MS/MS Method for the Simultaneously Determinations of Two Bioactive Phenolic and Flavonoid Compounds in Chinese Herbal;** Yan Ling Zhang<sup>1</sup>; James Garcia<sup>2</sup>; Richard Staub<sup>2</sup>; Scott Bagett<sup>2</sup>; Isaac Cohen<sup>2</sup>; Uwe Christians<sup>1</sup>; <sup>1</sup>Univ. of Colorado Health Science Center, Denver, CO; <sup>2</sup>Bionovo, Inc., Emeryville, CA
- ThP 345 **The Analysis of Traditional Herbal Plants from Eritrea, East Africa using GC-MS, HPLC-ESI-MS and HPLC-ESI-MS/MS;** Julie Herniman<sup>1</sup>; G John Langley<sup>1</sup>; John M Mellor<sup>1</sup>; Katerina Klagkou<sup>2</sup>; <sup>1</sup>University of Southampton, Southampton, United Kingdom; <sup>2</sup>Thermo Fisher Scientific, Hemel Hempstead, United Kingdom
- ThP 346 **Approaches to the Identification of Unknown Anabolic Steroids in Dietary Supplements by Mass Spectrometry;** Martha L. Gay; John A.G. Roach; *FDA, College Park, MD*



THURSDAY POSTERS

POSTER SPACE

- ThP 347 **Profiling and Characterization of Polyphenol Polymers from Cinnamon using Ion Trap Mass Spectrometer**; Min He<sup>1</sup>; Peter Wang<sup>2</sup>; Ying Xiang<sup>3</sup>; Ying Qi<sup>3</sup>; Howard Sun<sup>3</sup>; Julian Phillips<sup>1</sup>; <sup>1</sup>*Thermo Fisher Scientific, San Jose, CA*; <sup>2</sup>*Thermo Fisher China, Shanghai, China*; <sup>3</sup>*Shanghai R&D, Nu Sin Enterprises, Shanghai, China*
- ThP 348 **Simultaneous Determination of Bioactive Components from Angelicae dahuricae Radix by LC-ESI-MS/MS**; Eun Ha Jung<sup>1</sup>; Ah Yeon Park<sup>1</sup>; Jinwoong Kim<sup>2</sup>; Jeong-Rok Youm<sup>1</sup>; Sang Beom Han<sup>1</sup>; <sup>1</sup>*Chung-Ang University, Seoul, South Korea*; <sup>2</sup>*Seoul National University, Seoul, South Korea*
- ThP 349 **Characterization of Polyphenols of Products Derived from Bees using CE-ESI-TOF**; David Arraez-Ramon<sup>1</sup>; Gabriela Zurek<sup>2</sup>; Carsten Baessmann<sup>1</sup>; Antonio Segura-Carretero<sup>1</sup>; Alberto Fernandez-Gutierrez<sup>1</sup>; <sup>1</sup>*University of Granada, Granada, Spain*; <sup>2</sup>*Bruker Daltonik GmbH, Bremen, GERMANY*
- ThP 350 **Liquid Chromatography/Electrospray Ionization Tandem Mass Spectrometry Method for Simultaneous Determination of Bioactive Components from Astragali Radix**; Hyon Kyun Lim<sup>1</sup>; Jin Hee Kim<sup>1</sup>; Sam Sik Kang<sup>2</sup>; Sang Beom Han<sup>1</sup>; Jeong-Rok Youm<sup>1</sup>; <sup>1</sup>*Chung-Ang University, Seoul, South Korea*; <sup>2</sup>*Seoul National University, Seoul, South Korea*
- ThP 351 **Simultaneous Quantitation of Twelve Flavonoids by LC-MS/MS in Rooibos Tea Product**; Liliang Zhang<sup>1</sup>; Li Yang<sup>2</sup>; Zijia Zhang<sup>2</sup>; Zhengtao Wang<sup>2</sup>; Xianguo Zhao<sup>1</sup>; <sup>1</sup>*Brunswick Laboratories, Norton, MA*; <sup>2</sup>*R&D Centre for Standardization of Chinese Medicine, Shanghai, P.R. China*
- ThP 352 **Analysis of Saponins from Leaves of Aralia Elate by Liquid Chromatography and Tandem Mass Spectrometry**; Mingquan Guo<sup>1</sup>; Lei Zhang<sup>2</sup>; Zhiqiang Liu<sup>1</sup>; <sup>1</sup>*Changchun Institute of Applied Chemistry, Changchun., PR China*; <sup>2</sup>*College of Chemistry of Jilin university, Changchun., PR China*
- ThP 353 **Characterization of the Bioactive Metabolites in Metarhizium Anisopliae by ESI/In-Source Collision/Ion Trap**; Huang-Wei Chian; Kuo-Lung Ku; *National Chiayi University, Chiayi City, Taiwan*

SMALL MOLECULES: GENERAL  
354 - 380

- ThP 354 **Analytical Strategies for the Rapid Characterization of Diacylglycerol-Lactone Combinatorial Libraries Utilizing Mass Spectrometry**; Christopher C. Lai; Said El Kazzouli; Lawrence R. Phillips; Angelica M. Garcia; Victor E. Marquez; James A. Kelley; *National Cancer Institute, NIH, Frederick, MD*
- ThP 355 **Properties-retention Study on Supercritical Fluid Chromatography Coupled to Mass Spectrometry (SFC-MS). Analysis of a Sulfonamide Library**; Amaury Cazenave-Gassiot<sup>1</sup>; G. John Langley<sup>1</sup>; Robert Boughtflower<sup>3</sup>; Jeffrey Caldwell<sup>7</sup>; Richard Coxhead<sup>2</sup>; Laure Hitzel<sup>6</sup>; Stephen Lane<sup>4</sup>; Paul Oakley<sup>5</sup>; Clare Paterson<sup>3</sup>; Frank Pullen<sup>6</sup>; <sup>1</sup>*University of Southampton, Southampton, United Kingdom*; <sup>2</sup>*Evotec OAI Ltd., Abingdon, United Kingdom*; <sup>3</sup>*GlaxoSmithKline, CASS, Harlow, United Kingdom*; <sup>4</sup>*GlaxoSmithKline, Stevenage, United Kingdom*; <sup>5</sup>*Mettler-Toledo Autochem, Newark, DE*; <sup>6</sup>*Pfizer Global Research and Development, Sandwich, United Kingdom*; <sup>7</sup>*Princeton Chromatography Inc., Cranbury, NJ*

POSTER SPACE

- ThP 356 **VUV Laser Induced Fragmentation for Structural Characterization of Small Molecule**; J.C. Yves Le Blanc; Sasha Loboda; Bruce Thomson; *MDS Sciex, Concord, Canada*
- ThP 357 **Structural Elucidations of Anionic Species by using Ion Chromatography a Hybrid Linear Ion Trap Fourier Transform Mass Spectrometer**; Shigeru Sakamoto<sup>1</sup>; Kai Uchiumi<sup>2</sup>; Yoko Sekiguchi<sup>2</sup>; Masayuki Kubota<sup>1</sup>; <sup>1</sup>*Thermo Fisher Scientific, Yokohama, Japan*; <sup>2</sup>*Nippon Dionex K.K., Osaka, Japan*
- ThP 358 **An Orthogonal Approach to Increasing Assay Ruggedness at Low Limits of Quantitation in LC/MS/MS Assays**; Spencer J Carter; Vladimir Capka; Stephen M Viccarone; *Tandem Labs, Salt Lake City, UT*
- ThP 359 **Analysis of Uranium Azide and Nitride Complexes by Atmospheric Pressure Chemical Ionization Mass Spectrometry (APCI-MS)**; John Greaves; William J. Evans; Kevin A. Miller; Joseph W. Ziller; *University of California, Irvine, CA*
- ThP 360 **Identification of "Unknowns" - Structural Clues From Advanced Isotope Peak Modeling of MS and Orthogonal MSMS Data**; Robert J Strife<sup>1</sup>; Michele Mangels<sup>1</sup>; Jason Price<sup>1</sup>; Ming Gu<sup>2</sup>; Yongdong Wang<sup>2</sup>; Don Kuehl<sup>2</sup>; <sup>1</sup>*Procter & Gamble, Cincinnati, OH*; <sup>2</sup>*Cerno Bioscience, Danbury, CT*
- ThP 361 **Use of Ion Adducts to Increase Selectivity and Sensitivity in LC-MS/MS**; Marie-Pierre Taillon; Cynthia Côté; Sylvain Latour; Véronique Gauvreau; Josée Michon; Troy Bradley; Fabio Garofolo; *Algorithme Pharma Inc., Laval (Montreal), QC, Canada*
- ThP 362 **Analysis and Quantification of Small Molecule Drugs Utilizing a MALDI-Triple Quadrupole Mass Spectrometer**; Tania A. Sasaki<sup>1</sup>; Yves LeBlanc<sup>2</sup>; <sup>1</sup>*Applied Biosystems, Foster City, CA*; <sup>2</sup>*MDS Sciex, Concord, Ontario Canada*
- ThP 363 **HPLC and LC/MS/MS Detection of Diglucoside Substituted Anthocyanins in Red Wines Produced by Hybrid Grapes**; Fan Ni; *Alcohol & Tobacco Tax & Trade bureau, Beltsville, MD*
- ThP 364 **Photoionization Cross-Sections of Volatile Organic Compounds at 10.5 eV**; Nozomu Kanno; Kenichi Tonokura; *The University of Tokyo, Tokyo, Japan*
- ThP 365 **Unusual Fragmentation Pathways of Positively Charged Alkali Metal Ion Adducted Carboxylic Acids**; Chang-Ching Chan<sup>1</sup>; Mark S. Bolgar<sup>1</sup>; Athula B. Attygalle<sup>2</sup>; <sup>1</sup>*Bristol-Myers Squibb Co., New Brunswick, NJ*; <sup>2</sup>*Stevens Institute of Technology, Hoboken, NJ*
- ThP 366 **Fragmentation Pathways of Deprotonated Phenanthroperylene Quinones from Fossil Sea Lilies by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry**; Juergen H. Gross<sup>1</sup>; Klaus Wolkenstein<sup>2</sup>; Heinz F. Schöler<sup>2</sup>; <sup>1</sup>*Organisch-Chemisches Institut, Heidelberg, Germany*; <sup>2</sup>*Institut für Umweltgeochemie, Heidelberg, Germany*
- ThP 367 **Dissociation Pathways, Kinetics and Relative Energetics of the Siderophore Enterobactin and its Fe(III) Complex Studied by IRMPD ESI-FT-ICR/MS**; Rambod Daneshfar; Andrew D. Leslie; Dietrich A. Volmer; *NRC, Institute for Marine Biosciences, Halifax, Canada*
- ThP 368 **A Machine Learning Pipeline for Substructure Detection in Unknown Mass Spectra**; Tobias Kind; Oliver Fiehn; *UC Davis Genome Center - Metabolomics, Davis, CA*

THURSDAY POSTERS

POSTER SPACE

- ThP 369 **Small Molecular Analysis using a TOF/TOF Mass Spectrometer, a Cationizing Matrix and  $\mu$ Focus MALDI Plate**; Fan Xiang<sup>1</sup>; Haiqiang Yu<sup>2</sup>; Andreas H. Franz<sup>2</sup>; <sup>1</sup>Shimadzu Biotech, Pleasanton, CA; <sup>2</sup>University of the Pacific, Stockton, CA
- ThP 370 **Sensitivity Enhancement in Capillary Electrophoresis Coupled to Mass Spectrometry (CE-MS) for the Detection and Identification of Alkylphosphonic Acids**; Mélanie Lagarrigue<sup>1</sup>; Anne Bossée<sup>1</sup>; Arlette Bégos<sup>1</sup>; Nathalie Delaunay<sup>2</sup>; Anne Varenne<sup>2</sup>; Pierre Gareil<sup>2</sup>; Bruno Bellier<sup>1</sup>; <sup>1</sup>Centre d'Etudes du Bouchet, Vert-le-Petit, France; <sup>2</sup>Laboratoire Electrochimie et Chimie Analytique, Paris, France
- ThP 371 **Quantitation of Menthol Using Liquid Chromatography Atmospheric Pressure Chemical Ionization Tandem Mass Spectrometry**; Jian Jiang; Bernd Bruenner; Christopher James; *Amgen, Thousand Oaks, CA*
- ThP 372 **Determination of Ion Structures in Structurally Related Compounds using Precursor Ion Fingerprinting**; Michelle Sheldon<sup>1</sup>; Timothy R. Croley<sup>1</sup>; Robert Mistrik<sup>2</sup>; <sup>1</sup>Commonwealth of Virginia, Richmond, VA; <sup>2</sup>HighChem, Ltd., Bratislava, Slovakia
- ThP 373 **The MS of Carbonyl Compounds Generated from Titan Atmosphere Simulations Containing Carbon Monoxide**; Michael F Aldersley<sup>1</sup>; Robert Briggs<sup>2</sup>; James P Ferris<sup>1</sup>; Michael Force<sup>2</sup>; Buu N Tran<sup>1</sup>; Dmitri V Zagorevskii<sup>1</sup>; <sup>1</sup>Rensselaer Polytechnic Institute, Troy, NY; <sup>2</sup>NY State Department of Health, Albany, NY
- ThP 374 **High-Throughput Analysis of Thiazide Diuretics by Liquid Chromatography-Tandem Mass Spectrometry in Food Supplements**; Jung Nyun Kim<sup>1</sup>; Seol-a Kim<sup>2</sup>; Hee Duck Lee<sup>2</sup>; Man-Ho Choi<sup>2</sup>; <sup>1</sup>Hazardous Material Analysis Team / KAFRI, Seoul, South Korea; <sup>2</sup>Life Sciences Division / KIST, Seoul, South Korea
- ThP 375 **Analysis of Endocrine Disrupting Compounds, Pharmaceuticals and Personal Care in Water Using Simultaneous ESI and APCI Ionization**; Jim Krol; Andre Schreiber; Hensham Ghobarah; Chrisopher Borton; Loren Y Olson; Mark Kuracina; *Applied Biosystems, Framingham, MA*
- ThP 376 **Detection of 3-Methylhistidine and Anserine using Heptafluorobutyric Acid (HFBA) Desalting and Formic Acid Infusion ESI Mass Spectrometry**; Xiang He; Thomas Shaler; Erika Price; Christopher Becker; *PPD Inc., Menlo Park, CA*
- ThP 377 **Eliminating The Solvent Evaporation and Reconstitution Steps from the Cocktail CYP Inhibition Assay by On-Line Dilution for LC/MS/MS analysis**; Tao Wang; Ying Jiang; Kelly Jenkins; *Pfizer, San Diego, CA*
- ThP 378 **Accurate Mass Measurement Using Single Quadrupole GC/MS for Structure Elucidation of Unknowns**; Joseph Mick; Todd Gillespie; *Eli Lilly & Company, Indianapolis, IN*
- ThP 379 **Advantages of Molecular Imprinted Polymers LC-ESIMS/MS for Selective Extraction/Quantification of Chloramphenicol in Milk. Comparison to a Classical Sample Preparation**; Rayane Mohamed<sup>1</sup>; Janique Richoz-Payot<sup>1</sup>; Eric Gremaud<sup>1</sup>; Ecevit Yilmaz<sup>2</sup>; Jean Claude Tabet<sup>3</sup>; Philippe Alexandre Guy<sup>1</sup>; <sup>1</sup>Nestle Research Center, Lausanne, Switzerland; <sup>2</sup>MIP Technologies, Lund, Sweden; <sup>3</sup>University Pierre and Marie Curie, Paris, France

POSTER SPACE

- ThP 380 **Novel Metabolite Labeling Technique for the Quantification of Abscisic Acid via LC-ESI-MS in the Fern *Ceratopteris richardii***; Amber S Hopf<sup>1</sup>; Wenchu Yang<sup>2</sup>; Fred Regnier<sup>2</sup>; Jody Banks<sup>3</sup>; Jiri Adamec<sup>1</sup>; <sup>1</sup>Bindley Bioscience Center; <sup>2</sup>Dept of Chemistry; <sup>3</sup>Dept of Botany and Plant Pathology Purdue University, West Lafayette, IN

PROTEINS: GLYCOPROTEINS II  
381 - 402

- ThP 381 **Assessing the False Positive Rates Associated with the Methods Currently Used to Identify Sites of N-linked Glycosylation**; Lin Lin<sup>1</sup>; D. Brent Weatherly<sup>1</sup>; James A. Atwood<sup>2</sup>; Arthur Nuccio<sup>2</sup>; Ron Orlando<sup>2</sup>; <sup>1</sup>BioInquire, LLC, Athens, GA; <sup>2</sup>University of Georgia, Athens, GA
- ThP 382 **Investigations with O-linked Protein Glycosylations by MALDI-FTICR-MS**; Diana A. Saggese<sup>1</sup>; Taufika Islam Williams<sup>1</sup>; Robert J. Wilcox<sup>1</sup>; James D. Martin<sup>1</sup>; Hyun Joo An<sup>2</sup>; Bensheng Li<sup>2</sup>; Carlito B. Lebrilla<sup>2</sup>; David C. Muddiman<sup>1</sup>; <sup>1</sup>North Carolina State University, Raleigh, NC; <sup>2</sup>University of California-Davis, Davis, CA
- ThP 383 **Selective Enrichment of Glycopeptides from Glycoprotein Digests Using Ion-Pairing Normal-Phase Liquid Chromatography**; Wen Ding; Jennifer J. Hill; John Kelly; *NRC, Institute for Biological Sciences, Ottawa, Canada*
- ThP 384 **Novel UPLC-UV/MS Method for Quantitative Analysis of Protein Glycoforms**; Anton Karnoup<sup>1</sup>; Krishna Kuppannan<sup>1</sup>; Demetrius Dielman<sup>1</sup>; David McCaskill<sup>2</sup>; Nile Frawley<sup>1</sup>; Scott A. Young<sup>1</sup>; <sup>1</sup>The Dow Chemical Company, Midland, MI; <sup>2</sup>Dow AgroSciences, Indianapolis, IN
- ThP 385 **Comparing Collision-induced Dissociation and Electron-transfer Dissociation for Determining Site of Glycosylation in Glycopeptides Separated by Chip-based Liquid Chromatography**; William R. Alley, Jr.; Yehia Mechref<sup>2</sup>; Milos V. Novotny<sup>1</sup>; <sup>1</sup>National Center for Glycomics and Glycoproteomics, Bloomington, IN; <sup>2</sup>METACyt Biochemical Analysis Center, Bloomington, IN; <sup>3</sup>Indiana University, Bloomington, IN
- ThP 386 **A Novel Glycoproteomic Approach for the Complete Characterization of Glycopeptides from Complex Biological Mixtures**; James A. Atwood<sup>1</sup>; Zuzheng Luo<sup>1</sup>; D. Brent Weatherly<sup>2</sup>; Barry Boyes<sup>1</sup>; Ron Orlando<sup>1</sup>; <sup>1</sup>University of Georgia, Athens, GA; <sup>2</sup>BioInquire, LLC, Athens, GA
- ThP 387 **Biospecific Isolation and Label Free Comparison of Complex N-linked Glycoproteins in Sera of Patients with Malignant and Benign Ovarian Tumors**; Julianne M. Cook Botelho<sup>1</sup>; Lin Lin<sup>2</sup>; D. Brent Weatherly<sup>2</sup>; Ron Orlando<sup>1</sup>; <sup>1</sup>Complex Carbohydrate Research Center/UGA, Athens, GA; <sup>2</sup>BioInquire, LLC, Athens, GA
- ThP 388 **Comparison of Top-up (intact protein) and Bottom-up Techniques for the Quantitation of Glycosylation in Recombinant IgG Molecules**; Sandipan Sinha<sup>1</sup>; Gary Pipes<sup>2</sup>; Elizabeth M. Topp<sup>1</sup>; Pavel V. Bondarenko<sup>2</sup>; Michael Treuheit<sup>2</sup>; Himanshu S. Gadgil<sup>2</sup>; <sup>1</sup>University of Kansas, Lawrence, KS; <sup>2</sup>Amgen Inc., Thousand Oaks, CA
- ThP 389 **Integration of Multi-Lectin Detection Based Glycoprotein Microarrays with Mass Spectrometry for Profiling N-Glycosylation Pattern Changes in Colon Cancer**; Yinghua Qiu; Tasneem H. Patwa; Missy Tuck; Dean E. Brenner; David M. Lubman; *University of Michigan, Ann Arbor, MI*

THURSDAY POSTERS

POSTER SPACE

- ThP 390 **Discrimination of  $\alpha$ 2,3- and  $\alpha$ 2,6-Sialylation on Oligosaccharides in the Presence of Pyrene Derivatives using MALDI-QIT-TOFMS;** Junko Amano; Fumio Tougasaki; Ichiro Sugimoto; *The Noguchi Institute, Tokyo, Japan*
- ThP 391 **Glycosylation Pattern on Human Monoclonal Antibodies: A Novel Lectin Affinity- LC MS/MS Method of Characterization;** Zhigang Wu; Susan Wong; Lourdes Thevanayagam; Shrikant Deshpande; Mohan Srinivasan; *Medarex, Sunnyvale, CA*
- ThP 392 **Novel LC/MS/MS Workflows for Quantitative Analysis of the Glycoform Distribution of Human Immunoglobulin Proteins;** Christof E. Lenz; Jianru Stahl-Zeng; Jörg Dojahn; *Applied Biosystems Germany, Darmstadt, Germany*
- ThP 393 **Development of a Workflow for the Analysis of Clinical Glycoproteins;** Faith Hays; David Bunk; *National Institute of Standards and Technology, Gaithersburg, MD*
- ThP 394 **Using Graphitized Carbon for Glycopeptide Separations Prior to Mass Spectral Detection;** William R. Alley<sup>1</sup>; Yehia Mechref<sup>1</sup>; Milos V. Novotny<sup>1</sup>; <sup>1</sup>*National Center for Glycomics and Glycoproteomics, Bloomington, IN;* <sup>2</sup>*METACyt Biochemical Analysis Center, Bloomington, IN;* <sup>3</sup>*Department of Chemistry, Indiana University, Bloomington, IN*
- ThP 395 **Identification of Rat Urinary Glycoproteins using Lectin Columns;** Pyong-gon Moon<sup>1</sup>; Hyun-Ho Hwang<sup>1</sup>; Hye-Jeong Kim<sup>1</sup>; Seung-Jin Lee<sup>2</sup>; Je-Yoel Cho<sup>2</sup>; Tae-Hwan Kwon<sup>3</sup>; Sun-Hee Park<sup>4</sup>; Yong-Lim Kim<sup>4</sup>; Moon-Chang Baek<sup>1</sup>; <sup>1</sup>*Dept. Molecular Medicine, School of Medicine, Deagu, South Korea;* <sup>2</sup>*Dept. Biochemistry, School of Dentistry, Deagu, South Korea;* <sup>3</sup>*Dept. of Biochem. and Cell Biology, School of medi, Deagu, South Korea;* <sup>4</sup>*Dept. of Internal Medicine, Kyungpook univ.hospital, Deagu, South Korea*
- ThP 396 **Relative Quantification of Glyco-Proteins from Yeast Lysate by Means of ICPL Labelling, ConA Capturing and MALDI-TOF Mass Spectrometry;** Katrin Sparbier<sup>1</sup>; Irina Kessler<sup>1</sup>; Gongyi Shi<sup>2</sup>; Markus Kostrzewa<sup>1</sup>; <sup>1</sup>*Bruker Daltonik GmbH, Leipzig, GERMANY;* <sup>2</sup>*Bruker Daltonics, Billerica, MA*
- ThP 397 **Characterization of Glycoprotein Isoforms Separated by cIEF using MALDI-QIT with an On-Plate Digestion Method;** Chen Li<sup>1</sup>; Jia Zhao<sup>1</sup>; Fan Xiang<sup>2</sup>; David M Lubman<sup>1</sup>; <sup>1</sup>*University of Michigan, Ann Arbor, MI;* <sup>2</sup>*Shimadzu corporation, Santa Clara, CA*
- ThP 398 **Identifying Glycopeptides in Complex Mixtures using a Biotin - Hydrazide Enrichment Strategy;** Prasanna Ramachandran; Anders J. Ytterberg; Rachel R. Ogorzalek Loo; Pinmanee Boonthueng; Joesph A. Loo; *University of California, Los Angeles, Los Angeles, CA*
- ThP 399 **Glycoprotein Characterization using Infusion Chip Technology Combined with FT-ICR Mass Spectrometry and ECD/IRMPD Fragmentation;** Daniel Eikel<sup>1</sup>; Janet Mans<sup>2</sup>; David H. Margulies<sup>2</sup>; Sonja Hess<sup>1</sup>; <sup>1</sup>*DHHS, National Institutes of Health, NIDDK, Bethesda, MD;* <sup>2</sup>*DHHS, National Institutes of Health, NIAID, Bethesda, MD*
- ThP 400 **Label-Free Quantitative Glycoproteomics;** Kathryn R. Rebecchi; Eden P. Go; Heather Desaire; *University of Kansas, Lawrence, KS*
- ThP 401 **Maximizing Coverage of Glycosylation Heterogeneity in MALDI-MS Analysis of Human Serum Glycopeptides;** Ying Zhang; Eden P. Go; Heather

POSTER SPACE

- Desaire; *Chemistry Department of University of Kansas, Lawrence, KS*
- ThP 402 **A Novel Approach for Identification and Characterization of Glycoproteins Using a Quadrupole Ion-Mobility Time-of-Flight Mass Spectrometer;** Weibin Chen; Petra Olivova; Catalin E. Doneanu; John C. Gebler; *Waters Corp, Milford, MA*

PROTEOMICS: PHOSPHORYLATION  
403 - 421

- ThP 403 **Quantitative Comparison of Myofilament Phosphoproteomes of Neonatal and Adult Rat Hearts- A Mass Spectrometry Approach;** Chao Yuan<sup>1</sup>; Qianhu Sheng<sup>2</sup>; Haixu Tang<sup>2</sup>; Rong Zeng<sup>3</sup>; Yixue Li<sup>3</sup>; R. John Solaro<sup>1</sup>; <sup>1</sup>*University of Illinois at Chicago, Chicago, IL;* <sup>2</sup>*Indiana University, Bloomington, IN;* <sup>3</sup>*Shanghai Institutes for Biological Sciences, Shanghai, China*
- ThP 404 **Target Analysis for PTM Discovery using A QqTOF MS Acquisition System;** Xu Guo<sup>1</sup>; David M. Cox<sup>1</sup>; Christie Hunter<sup>2</sup>; Min Du<sup>3</sup>; Eva Duchoslav<sup>4</sup>; John C. McDermott<sup>3</sup>; <sup>1</sup>*Applied Biosystems/MDS Sciex, Concord, Canada;* <sup>2</sup>*Applied Biosystem, Foster City, CA 94404;* <sup>3</sup>*York University, Toronto, Canada;* <sup>4</sup>*MDS Sciex, Concord, Canada*
- ThP 405 **Phospho-protein / Peptide Enrichment Combined with MS for Phosphoproteomic Study of Salt Response Signaling Pathways in Rice;** Dawei Liu; John Patterson; Siria Natera; Kris Ford; Antony Bacic; *The University of Melbourne, Melbourne, Australia*
- ThP 406 **Arabidopsis Thaliana Phosphopeptide Identification by Electron Transfer Dissociation Mass Spectrometry;** Hillary A. Montgomery<sup>1</sup>; Joshua Blakeslee<sup>2</sup>; Alison DeLong<sup>2</sup>; Jeffrey Shabanowitz<sup>1</sup>; Donald F. Hunt<sup>1</sup>; <sup>1</sup>*University of Virginia, Charlottesville, VA;* <sup>2</sup>*Brown University, Providence, RI*
- ThP 407 **2D-nanoLC Approach using TiO2 Columns for the Enrichment of Protein-RNA Cross-Links and Phosphopeptides Derived from Ribonucleoprotein Particles for MS-Based Identification;** Florian Richter; Eva Kühn-Hölsken; Mads Gronborg; Monika Raabe; Uwe Plessmann; Henning Urlaub; *Max Planck Institute for Biophysical Chemistry, Goettingen, GERMANY*
- ThP 408 **Cross-Talk Between EGF and TNF Alpha Signaling Pathways Analyzed by Quantitative Phosphoproteomics;** Matthias Mann; Florian Gnad; Chanchal Kumar; Sonja Krueger; Gaby Sowa; Cuiping Pan; Jürgen Cox; Jesper V. Olsen; *Max Planck Institute for Biochemistry, D Martinsried, Germany*
- ThP 409 **LC-time Scale Peptide Sequencing and PTM Characterization in the Negative Ion-mode using Electron Detachment Dissociation;** Frank Kjeldsen; Anders Giessing; Ole N. Jensen; *University of Southern Denmark, Odense, Denmark*
- ThP 410 **Phosphoprotein Profiling by Negative Mode Precursor Ion Scanning;** William Old<sup>1</sup>; John Shabb<sup>3</sup>; Chia-yu Yen<sup>1</sup>; Stephane Houel<sup>1</sup>; Brian Eichelberger<sup>1</sup>; Carrie Croy<sup>1</sup>; Katheryn Resing<sup>1</sup>; Natalie Ahn<sup>2</sup>; <sup>1</sup>*University of Colorado, Boulder, CO;* <sup>2</sup>*HHMI, Boulder, CO;* <sup>3</sup>*University of North Dakota, Grand Forks, ND*
- ThP 411 **Improved Characterisation Approaches for the Identification of Post-Translationally Modified Peptides by Utilising Travelling Wave-Based Ion Mobility Mass Spectrometry;** Susan E. Slade<sup>1</sup>; Thalassinos Konstantinos<sup>1</sup>; Jonathan P. Williams<sup>1</sup>; James H. Scrivens<sup>1</sup>; Robert H. Bateman<sup>2</sup>; <sup>1</sup>*Biological Sciences, University of Warwick, Coventry, United*

THURSDAY POSTERS

POSTER SPACE

- Kingdom; <sup>2</sup>Waters MS Technologies, Manchester, United Kingdom
- ThP 412 **Global Phosphorylation Analysis using Protein Microarrays And Mass Spectrometry to Assess Processes That Change from Pre-Malignant to Malignant Breast Cancer;** Tasneem H. Patwa<sup>1</sup>; Fred R. Miller<sup>2</sup>; David M. Lubman<sup>1</sup>; <sup>1</sup>University of Michigan, Ann Arbor, MI; <sup>2</sup>Wayne State University School of Medicine, Ann Arbor, MI
- ThP 413 **Improved Detection of Phosphopeptides using a Combination of Electro Capture and High Performance MALDI ToF/ToF;** D J Evason<sup>1</sup>; V C Parr<sup>1</sup>; T Lavold<sup>2</sup>; J Astorga<sup>2</sup>; O N Jensen<sup>3</sup>; <sup>1</sup>SAI, Manchester, United Kingdom; <sup>2</sup>Biomotif AB, Stockholm, Sweden; <sup>3</sup>University of Southern Denmark, Odense, Denmark
- ThP 414 **Application of Phosphoproteomic Strategies and Mass Spectrometry to Study the Molecular Processes Underlying Odor Perception in Mouse;** Heike Piechura<sup>1</sup>; Jon Barbour<sup>1</sup>; Eva Neuhaus<sup>2</sup>; Hanns Hatt<sup>2</sup>; Helmut E. Meyer<sup>1</sup>; Bettina Warscheid<sup>1</sup>; <sup>1</sup>Medical Proteome Center, Bochum, Germany; <sup>2</sup>Cellphysiology, Bochum, Germany
- ThP 415 **Quantitative Monitoring of Dynamic Phosphorylation in the Extracellular signal-Regulated Kinase Pathway;** Gum Yong Kang; Konkuk University, Seoul, South Korea
- ThP 416 **Quantitative Determination of Phosphorylated Isomers in Human Cardiac Troponin I by Top Down Electron Capture Dissociation/Electron Transfer Dissociation Mass Spectrometry;** Ying Ge<sup>1</sup>; Vlad Zabrouskov<sup>2</sup>; Jae Schwartz<sup>2</sup>; Jeffery W. Walker<sup>1</sup>; <sup>1</sup>UW Madison, Madison, WI; <sup>2</sup>Thermo Fisher Scientific, San Jose, CA
- ThP 417 **Phosphoproteome Analysis Using Electron Transfer Dissociation Ion Trap Mass Spectrometry and Database Searching;** Ning Tang<sup>1</sup>; David M. Horn<sup>1</sup>; Henrik Molina<sup>2</sup>; Suresh Mathivanan<sup>2</sup>; Akhilesh Pandey<sup>2</sup>; <sup>1</sup>Agilent Technologies, Santa Clara, CA; <sup>2</sup>Johns Hopkins University, Baltimore, MD
- ThP 418 **Optimizing Phosphoprotein Analysis for Arabidopsis thaliana;** Katharina Lohrig<sup>1</sup>; Bernd Müller<sup>2</sup>; Dario Leister<sup>2</sup>; Dirk Wolters<sup>1</sup>; <sup>1</sup>Ruhr Universität Bochum, Bochum, Germany; <sup>2</sup>Ludwig Maximilian Universität, München, Germany
- ThP 419 **Exploring the Relative Efficiencies Between Rapid Online and Offline Phosphopeptide Enrichment Sample Preparation Techniques;** Nina Viswanathan<sup>1</sup>; Stuart Lam<sup>1</sup>; Peter Kent<sup>2</sup>; Kerry Nugent<sup>2</sup>; Mark T Cancilla<sup>1</sup>; <sup>1</sup>Sunesis Pharmaceuticals INC, South San Francisco, CA; <sup>2</sup>Michrom BioResources, Auburn, CA
- ThP 420 **A Covalent Solid-Phase Enrichment Technique Used in the Isolation and Analysis of Phosphorylated Proteins;** Samantha M. Frawley; Jetze J. Tepe; Michigan State University, East Lansing, MI
- ThP 421 **Analysis of Phosphopeptides in Cerebrospinal Fluid by Liquid Chromatography Coupled to Inductively Coupled Plasma Mass Spectrometry and to HPLC-Chip-Mass Spectrometry;** Jenny Ellis; Kevin Kubachka; Joseph Caruso; University of Cincinnati, Cincinnati, OH

POSTER SPACE

- | PROTEINS: PHOSPHO PROTEINS |   |
|----------------------------|---|
| 422 - 442                  |   |
| ThP 422                    | <b>Improved Positive Mode Ionization Efficiency of Phosphopeptides by Use of Metal Adducts and Ion Pairing Reagents;</b> <u>Hye Kyong Kweon</u> ; Kristina Hakansson; The University of Michigan, Ann Arbor, MI   |
| ThP 423                    | <b>Characterization of the Phosphorylation States by HPLC ESI-MS and ESI-MS/MS of IRAK-4, A Key Regulatory Cell Signaling Kinase;</b> <u>Marshall M. Siegel</u> <sup>12</sup> ; Wayne Stochaj <sup>12</sup> ; Quing Yao <sup>12</sup> ; Kerry Kelleher <sup>12</sup> ; Vikram Rao <sup>12</sup> ; <sup>1</sup> Wyeth Research, Pearl River, NY; <sup>2</sup> Wyeth Research, Cambridge, MA  |
| ThP 424                    | <b>Characterizing the Phosphoproteome of Human Serum;</b> <u>Ming Zhou</u> ; Haleem J. Issaq; Timothy D. Veenstra; SAIC-Frederick, Frederick, MD  |
| ThP 425                    | <b>Ack1-mediated Phosphorylation of Androgen Receptor on a Quadrupole Linear Ion Trap and Its Implications to Prostate Cancer;</b> <u>Maria Esteban Warren</u> <sup>1</sup> ; Nupam Mahajan <sup>2</sup> ; Carol Parker <sup>1</sup> ; Xian Chen <sup>1</sup> ; H. Shelton Earp <sup>2</sup> ; <sup>1</sup> University of North Carolina, Chapel Hill, NC; <sup>2</sup> UNC Lineberger Comprehensive Cancer Center, Chapel Hill, NC   |
| ThP 426                    |   |
| ThP 427                    | <b>Identification of Sites of Phosphorylation Of Human Nrf2 And Quantitative Analysis using Mass Spectrometry;</b> <u>Yan Luo</u> ; Aimee L. Egger; Dongting Liu; Ang Liu; Andrew D. Mesecar; Richard B. van Breemen; University of Illinois College of Pharmacy, Chicago, IL   |
| ThP 428                    | <b>Isoelectric Point-based Phosphopeptide Enrichment Combined with nanoElectrospray Ionization Mass Spectrometry;</b> <u>Chien-Wen Hung</u> ; Dieter Kuebler; Wolf D. Lehmann; German Cancer Research Center, Heidelberg, Germany   |
| ThP 429                    | <b>Identification of Phosphorylation Sites on Filamin A Protein (from Normal and TRAP-Activated Platelets) using RP-LC-MS/MS Analysis and Fe (III) IMAC;</b> <u>Erin D. Jeffery</u> <sup>1</sup> ; Boris I Ratnikov <sup>2</sup> ; Mark H. Ginsberg <sup>3</sup> ; Donald F. Hunt <sup>1</sup> ; <sup>1</sup> University of Virginia, Charlottesville, VA; <sup>2</sup> Burnham Institute for Medical Research, La Jolla, CA; <sup>3</sup> University of California, San Diego, San Diego, CA   |
| ThP 430                    | <b>Phosphorylation of 12S Globulin (Cruciferin) in Wild Type and abi1-1 Mutant Arabidopsis Thaliana Seeds;</b> <u>Lianglu Wan</u> <sup>1</sup> ; Andrew RS Ross <sup>3</sup> ; Jingyi Yang <sup>1</sup> ; Dwayne D Hegedus <sup>2</sup> ; Allison R Kermod <sup>3</sup> ; <sup>1</sup> National Research Council of Canada, Saskatoon, Canada; <sup>2</sup> Agriculture and Agri-Food Canada, Saskatoon, Canada; <sup>3</sup> Simon Fraser University, Burnaby, Canada  |
| ThP 431                    | <b>Toward Phosphoproteome Profiling using Hydroxy Acid-Modified Metal Oxide Chromatography Coupled with NanoLC-MS/MS;</b> <u>Naoyuki Sugiyama</u> <sup>1</sup> ; Sumiko Ohnuma <sup>2</sup> ; Yutaka Kyono <sup>3</sup> ; Yasuyuki Igarashi <sup>2</sup> ; Kosaku Shinoda <sup>1</sup> ; Takeshi Masuda <sup>2</sup> ; Akihiro Nakamura <sup>2</sup> ; Masaru Tomita <sup>2</sup> ; Yasushi Ishihama <sup>2</sup> ; <sup>1</sup> Human Metabolome Technologies, Inc., Tsuruoka, Japan; <sup>2</sup> Institute for Advanced Biosciences, Keio University, Tsuruoka, Japan; <sup>3</sup> GL Sciences Inc., Iruma, Japan |
| ThP 432                    | <b>Identification of Myb-Binding Protein 1a (MYBBP1A) as a Novel Substrate for Aurora Kinases;</b> Claudia Perrera; <u>Sonia Troiani</u> ; Riccardo Colombo; Laura Gianellini; Michele Modugno; Patrizia Carpinelli; Barbara Valsasina; Luisa Rusconi; Nerviano Medical Sciences, Nerviano (MI), Italy  |

THURSDAY POSTERS

POSTER SPACE

- ThP 433 **A Systematic Proteomics Approach for Identifying Kinase Substrates using MS;** Shu-hui Chen; Sheng-Yu Huang; Mei-Ling Tsai; Guan-Yuan Chen; Chin-Jen Wu; *National Cheng Kung University, Tainan, Taiwan*
- ThP 434 **In-Depth Analysis of the HeLa Phosphoproteome using Specific Phosphoprotein Purification Chromatography and MALDI Chip Based IMAC Phosphopeptide Enrichment;** Marcia Armstrong<sup>1</sup>; Udo Roth<sup>2</sup>; Karen Kowalewski<sup>2</sup>; Christoph Menzel<sup>2</sup>; Christopher Belisle<sup>1</sup>; Kerstin Steinert<sup>2</sup>; <sup>1</sup>*Qiagen Sciences, Germantown, MD*; <sup>2</sup>*Qiagen GmbH, Hilden, Germany*
- ThP 435 **Direct Quantitation of Site Specific Tyrosine Phosphorylation in Activated High Affinity IgE Receptors by Electrospray LC/MS;** Peter S. Backlund<sup>1</sup>; Toshiyuki Yamashita<sup>2</sup>; Juan Rivera<sup>2</sup>; <sup>1</sup>*NICHD, National Institutes of Health, Bethesda, MD*; <sup>2</sup>*NIAMS, National Institutes of Health, Bethesda, MD*
- ThP 436 **The Application of Nano-electrospray Mass Spectrometry on Phosphoprotein Analysis;** Nan Li; Fang Shen; Yong Seok Choi; Sarah L. Gaffen; Troy D. Wood; *SUNY at Buffalo, Buffalo, NY*
- ThP 437 **Mapping Differential Phosphorylation Patterns of the Cell Cycle Checkpoint Protein Chk-2;** Michael D. Ward; Cindy Guo; Saurub Gupta; Kimberly Fryrear; Ali Haoudi; O. John Semmes; *Eastern Virginia Medical School, Norfolk, VA*
- ThP 438 **Methyl Esterification of Peptides Improves the Isolation of Phosphorylated Peptides from Titanium Dioxide;** Eric Simon; Matthew A. Young; Philip C. Andrews; *University of Michigan, Ann Arbor, MI*
- ThP 439 **ABRF-sPRG 2007 Study: Development and Evaluation of a Phosphoprotein Standard Mix;** Jeffrey A. Kowalak<sup>1</sup>; Philip C. Andrews<sup>2</sup>; David Arnott<sup>3</sup>; Mary Ann Gawinowicz<sup>4</sup>; William S. Lane<sup>5</sup>; Kathryn S. Lilley<sup>6</sup>; Rachel R. Ogorzalek Loo<sup>7</sup>; Larry Martin<sup>8</sup>; Steven E. Stein<sup>9</sup>; <sup>1</sup>*National Institute of Mental Health, Bethesda, MD*; <sup>2</sup>*University of Michigan School of Medicine, Ann Arbor, MI*; <sup>3</sup>*Genentech, Inc., So. San Francisco, CA*; <sup>4</sup>*Columbia University, New York, NY*; <sup>5</sup>*Harvard University, Cambridge, MA*; <sup>6</sup>*Cambridge University, Cambridge, UK*; <sup>7</sup>*University of California, Los Angeles, CA*; <sup>8</sup>*East-West University, Chicago, IL*; <sup>9</sup>*National Institute of Standards and Technology, Gaithersburg, MD*
- ThP 440 **A Novel Strategy to Quantitatively Analyze the Phosphoproteomic Response of Muscle to Glucocorticoids;** Erica Reeves; Zohra Olumee-Shabon; Yetrib Hathout; Eric Hoffman; *Children's National Medical Center, Washington, DC*
- ThP 441 **Novel Protein Kinase A-mediated Endothelial Cell Myosin Light Chain Kinase Phosphorylation Sites using Data Dependent Nano-LC/MS/MS Mass Spectrometry Method;** Jing Zhao<sup>1</sup>; Sara M. Camp<sup>1</sup>; Eddie T. Chiang<sup>1</sup>; Alexander Schilling<sup>2</sup>; Steven M. Dudek<sup>1</sup>; Joe G.N. Garcia<sup>1</sup>; <sup>1</sup>*University of Chicago, Chicago, IL*; <sup>2</sup>*University of Illinois Chicago, Chicago, IL*
- ThP 442 **Functionalized Surfaces for on MALDI Target Phosphopeptide Capture and Analysis;** Mohammed Kajjout; Mohammed Kajjout; Caroline Tokarski; Christian Rolando; Séverine Le Gac; *Univ. des Science/Tech de Lille, Villeneuve d'Ascq, France*

POSTER SPACE

**PROTEINS: MEMBRANE METHODS**  
443 - 453

- ThP 443 **Intact Membrane Protein Purification and Analysis using Supercritical Fluid Chromatography and Mass Spectrometry;** Xu Zhang; Mark Scalf; Michael Westphall; Lloyd Smith; *UW-Madison, Madison, WI*
- ThP 444 **Development of Methods to Profile Cytochrome P450s from Normal and Tumour Tissues;** Chris Sutton; Laurence Patterson; *Institute of Cancer Therapeutics, Bradford, United Kingdom*
- ThP 445 **Elevated Temperature Facilitates Shotgun Analysis of Membrane Proteins;** Anna E Speers; Christine C Wu; *University of Colorado School of Medicine, Aurora, CO*
- ThP 446 **A Proteomic Approach Based on Ion Exchange Beads for Membrane Protein Analysis;** Jianjun Zhai; Zhenyu Huang; Li Liu; Haining Zhu; *University of Kentucky, Lexington, KY*
- ThP 447 **On-Column Enrichment of Hydrophobic CYP450 Proteins in HPLC Fractionation of Mouse Microsomes Prior to Protein Digestion and Nanospray-LC/MSMS analysis;** Witold M. Winnik; Pedro Ortiz; *US EPA, RTP, NC*
- ThP 448 **Comparison of Acid-Labile and Traditional Detergents for Membrane Solubilization and Digestion of Membrane Proteins;** Adele Blackler<sup>1</sup>; Michael MacCoss<sup>2</sup>; Christine Wu<sup>1</sup>; <sup>1</sup>*University of Colorado HSC, Aurora, CO*; <sup>2</sup>*University of Washington, Seattle, WA*
- ThP 449
- ThP 450 **Rapid HPLC and LC-MS Methods for the Analysis of p14 Fusion-Associated Small Transmembrane (FAST) Protein;** Reno Nguyen<sup>1</sup>; Roberto de Antueno<sup>2</sup>; Roy Duncan<sup>2</sup>; <sup>1</sup>*Grace Davison, Hesperia, CA*; <sup>2</sup>*Dalhousie University, Nova Scotia, Canada*
- ThP 451 **LC-MS/MS Compatible Separation of Membrane Proteins in Solution Using Interval Zone Free-Flow Electrophoresis;** Mikkel Nissum; *BD Diagnostics, Martinsried, Germany*
- ThP 452 **Membrane Protein Analysis Using Lipid-Based Protein Immobilization Technology;** Tasso Miliotis<sup>1</sup>; Anders Karlsson<sup>2</sup>; Max Davidson<sup>2</sup>; Jenny Wikström<sup>2</sup>; <sup>1</sup>*AstraZeneca R&D Molndal, Molndal, Sweden*; <sup>2</sup>*Nanoxis, Göteborg, Sweden*
- ThP 453 **Quantitative ESI MS/MS Lipid Analysis of Cytochrome c Oxidase Purified from Wild-Type and Cardiolipin-Deficient Rhodobacter sphaeroides;** Xi Zhang; Carrie Hiser; Shelagh Ferguson-Miller; Gavin Reid; *Michigan State University, East Lansing, MI*

**PROTEOMICS: CANCER BIOMARKERS II**  
454 - 472

- ThP 454 **Comparative Proteomic Analysis of Healthy Individuals and Breast Cancer Patient Sera by Two-Dimensional Liquid Chromatography-Tandem Mass Spectrometry;** Yuening Zhang; Iveta Klouckova; Yehia Mechref; Milos V. Novotny; *Indiana University, Bloomington, IN*
- ThP 455 **Comprehensive Proteomic Profiling of Human Pancreatic Cancer Duct Fluid (Juice) using 1D-Gel-, OFFGEL- and HPLC-Chip-MS Technology;** Vadiraja B. Bhat<sup>1</sup>; Rebecca Wiatrek<sup>1</sup>; Christopher Thompson<sup>1</sup>; Mohsen Shabahang<sup>1</sup>; Arundhati Rao<sup>1</sup>; Alexzander A. Asea<sup>1</sup>; <sup>1</sup>*Scott & White Memorial Hospital, Temple, TX*; <sup>2</sup>*Texas A&M Health Science Center, Temple, TX*

THURSDAY POSTERS

POSTER SPACE

- ThP 456 **Protein Profiling of Formalin-Fixed Paraffin-Embedded Pediatric Brain Stem Glioma;** Javad Nazarian; Eric P. Hoffman<sup>1</sup>; Rita-Maria Santi; Tobey J. MacDonald; Yetrib Hathout; *Children's National Medical Center, Washington, DC*
- ThP 457 **Proteomic Analysis of Markers Associated with Tumor Stage in Ovarian Serous Tissues using MALDI-QIT-TOF-MS;** Yanfei Wang<sup>1</sup>; Kathleen R. Cho<sup>1</sup>; Fan Xiang<sup>2</sup>; David M. Lubman<sup>1</sup>; <sup>1</sup>*University of Michigan, Ann Arbor, MI*; <sup>2</sup>*Shimadzu, Pleasanton, CA*
- ThP 458 **Two-Dimensional Separation and nano-ESI Ion Trap Analysis on Pancreatic Cancer Stem Cells;** Lan Dai; *Univ of Michigan, Ann Arbor, MI*
- ThP 459 **Proteomic Profile of Lymph in Metastatic Breast Cancer;** Catherine Riley<sup>1</sup>; Jiri adamec<sup>1</sup>; Xiang Zhang<sup>1</sup>; Elwood Walls<sup>2</sup>; Charles Buck<sup>1</sup>; Sulma Mohammed<sup>2</sup>; <sup>1</sup>*Bindley Bioscience Center Purdue University, West Lafayette, IN*; <sup>2</sup>*Purdue University, West Lafayette, IN*
- ThP 460 **Improving the Detection and Quantitation of Protein Expression Changes in Mucinous and Serous Pancreatic Cystic Neoplasms;** Puneet Souda; James J. Farrell; Babak Hassanzadeh; Ali Ammar; Kym F. Faull; Julian P. Whitelegge; *University of California Los Angeles, Los Angeles, CA*
- ThP 461 **Tissue Proteomic Analysis of Low and High Metastatic Potential Intermediate Risk Stage I Endometrial Cancer;** Brian L. Hood<sup>1</sup>; Julie M. Oliver<sup>2</sup>; Susan E. Abbatiello<sup>1</sup>; David A. Lucas<sup>1</sup>; Manda J. Welsh<sup>1</sup>; William L. Bigbee<sup>1</sup>; George L. Maxwell<sup>2</sup>; Thomas P. Conrads<sup>1</sup>; <sup>1</sup>*University of Pittsburgh Cancer Institute, Pittsburgh, PA*; <sup>2</sup>*Walter Reed Army Medical Center, Washington, DC*
- ThP 462 **Serum Proteomic Profiling of Stage 1 Invasive Ductal Breast Carcinoma Patients with PROFILE™ Biomarker Discovery System;** Kevin Dawson<sup>1</sup>; Daniel Tuse<sup>1</sup>; Robert L. Erwin<sup>1</sup>; Gordon R. Whiteley<sup>2</sup>; Earl L. White<sup>1</sup>; <sup>1</sup>*Predictive Diagnostics, Inc, Vacaville, CA*; <sup>2</sup>*SAIC-Frederick, Inc., Gaithersburg, MD*
- ThP 463 **Probing the Different Secreted Proteins of Pancreatic Cancer Cells by ITRAQ;** Haijing Zhang; Liyan Lv; Yanchun Deng; Zhili Li; *Chinese Academy of Medical Sciences, Beijing, CHINA*
- ThP 464 **Analyzing the Proteome of Formalin Fixed Paraffin Embedded Tissues;** Rumen Bogoev; Mahbod R. Hajivandi; Xiquan Liang; Song-Hua Ke; Paul Predki; Marshall Pope; *Invitrogen, R & D, Carlsbad, CA*
- ThP 465 **Proteins Identification from Formalin-Fixed Paraffin-Embedded Tissues;** Sheng-ta Tsai; *The Genomics Research Center, Academia Sinica., Taipei, Taiwan*
- ThP 466 **The Use of Affinity Labeled Peptide Substrates for the Screening of Disease-Associated Protease Products (DAPPs);** Nicolas A. Stewart<sup>1</sup>; DaRue A. Prieto<sup>1</sup>; Louis M. Consentino<sup>2</sup>; Haleem J. Issaq<sup>1</sup>; Timothy D. Veenstra<sup>1</sup>; <sup>1</sup>*SAIC-Frederick, Frederick, MD*; <sup>2</sup>*National Cancer Institute at Frederick, Frederick, MD*
- ThP 467 **Applying Time-of-Flight Secondary Ion Mass Spectrometry with Cell Isolation Techniques to Aid in the Classification of Circulating Breast Tumor Cells;** Susan L. Fortson; Mark G. Knize; Kuang Jen Wu; Elena S.F. Berman; Ligang Wu; James S. Felton; Kristen S. Kulp; *Lawrence Livermore National Laboratory, Livermore, CA*
- ThP 468 **Novel Method for Full-Length Soluble Protein Extraction from Formalin-Fixed Tissues for**

POSTER SPACE

- Immunological and Mass Spectrometry Analysis;** Sandra Nitschke<sup>1</sup>; Paige Weis<sup>2</sup>; Sven Andrecht<sup>1</sup>; Anja Seiler<sup>1</sup>; Uwe Michelsen<sup>1</sup>; Rob Hendriks<sup>1</sup>; Joerg von Hagen<sup>1</sup>; <sup>1</sup>*Merck KGaA, Darmstadt, Germany*; <sup>2</sup>*EMD Biosciences, Inc., Madison, WI*
- ThP 469 **Biomarker Discovery from Trace Amounts of Cervical Tissue in Pre-Cancer Stages Using Laser Capture Microdissection of ThinPrep Slides and LC-MS;** Ye Gu<sup>1</sup>; Shiao-lin Wu<sup>1</sup>; Jane Meyer<sup>2</sup>; William S. Hancock<sup>1</sup>; David Hanlon<sup>2</sup>; Barry L. Karger<sup>1</sup>; <sup>1</sup>*Northeastern University, Boston, MA*; <sup>2</sup>*Cytec Corporation, Marlborough, MA*
- ThP 470 **Biomarker Proteomics from Formalin-Fixed Paraffin-Embedded Liver and Breast Tissue Sections;** Laura Dubois<sup>1</sup>; Deidre Dalmas<sup>2</sup>; Marshall Scicchitano<sup>2</sup>; Daniela Schlatzer<sup>3</sup>; Mary Moyer<sup>2</sup>; Jack Liu<sup>2</sup>; Arthur Moseley<sup>4</sup>; Neal Cariello<sup>2</sup>; Marlene Darfler<sup>5</sup>; Kevin Blackburn<sup>6</sup>; <sup>1</sup>*Serenex, Durham, NC*; <sup>2</sup>*GlaxoSmithKline, RTP, NC*; <sup>3</sup>*Case Western Reserve University, Cleveland, OH*; <sup>4</sup>*Duke University, Durham, NC*; <sup>5</sup>*Expression Pathology, Gaithersburg, MD*; <sup>6</sup>*North Carolina State University, Raleigh, NC*
- ThP 471 **Quantitative Proteomics to Decipher Secretome Changes of Breast Fibroblasts with Loss of TGF-beta Type II Receptor;** Baogang J Xu; Bojana Jovanovic; Mary E Aakre; Jennifer L Jennings; Andrew J Link; Harold L Moses; *Vanderbilt University, Nashville, TN*
- ThP 472 **Discovery of Metastasis Factors from In-depth Proteome Analysis of Formalin Fixed Lung Carcinoma Tissues;** Toshihide Nishimura<sup>1</sup>; Takashi Hirano<sup>1</sup>; Tomoyo Nakano<sup>2</sup>; Maiko Ebisawa<sup>2</sup>; Masahiro Tsuboi<sup>1</sup>; Masaharu Nomura<sup>1</sup>; Hidetoshi Honda<sup>1</sup>; Masatoshi Kakihana<sup>1</sup>; Kouichi Yoshida<sup>1</sup>; Junichi Maeda<sup>1</sup>; Kiyonaga Fujii<sup>3</sup>; Yasuhiko Bando<sup>2</sup>; Kiyoshi Mukai<sup>1</sup>; Harubumi Kato<sup>1</sup>; <sup>1</sup>*Tokyo Medical University, Tokyo, Japan*; <sup>2</sup>*Biosys Technologies, Inc., Tokyo, Japan*; <sup>3</sup>*Hokkaido University, Sapporo, Japan*
- PROTEOMICS: LABELING & AFFINITY**  
473 - 485
- ThP 473 **Identification of the β-Amyloid Epitope Recognized by the Protease Inhibitor Human Cystatin C (hCC) using Epitope Excision- Mass Spectrometry;** Paulina Juszczyk<sup>1</sup>; Gabriela Ioana Paraschiv<sup>1</sup>; Aneta Szymanska<sup>2</sup>; Zbigniew Grzonka<sup>2</sup>; Michael Przybylski<sup>1</sup>; <sup>1</sup>*University of Konstanz, Konstanz, Germany*; <sup>2</sup>*University of Gdansk, Gdansk, Poland*
- ThP 474 **Protein Interaction Network Analysis with Mass Spectrometry;** James E. Bruce<sup>1</sup>; Haizhen Zhang<sup>1</sup>; Xiaoting Tang<sup>1</sup>; Natalia Zakharova<sup>1</sup>; Gerhard R. Munske<sup>1</sup>; Hye In Nam<sup>1</sup>; Li Yang<sup>1</sup>; Nikola Tolic<sup>2</sup>; Gordon A. Anderson<sup>2</sup>; <sup>1</sup>*Washington State University, Pullman, WA*; <sup>2</sup>*Pacific Northwest National Laboratory, Richland, WA*
- ThP 475 **Epitope Identification of Llama Single Chain Anti-β Amyloid Antibodies using Proteolytic Epitope Extraction- and Excision- Mass Spectrometry;** Gabriela Ioana Paraschiv<sup>1</sup>; Paulina Juszczyk<sup>1</sup>; Cecile Vincke<sup>2</sup>; Serge Muyldermans<sup>2</sup>; Michael Przybylski<sup>1</sup>; <sup>1</sup>*University of Konstanz, Konstanz, Germany*; <sup>2</sup>*Vrije University of Brussel, Brussel, Belgium*
- ThP 476 **Activity Based Probe with a Diazo Cleavable Linker - a Novel Tool in Proteomic Analysis of Cysteine Proteases;** Marko Fonovic; Steven Verhelst; Matthew Bogyo; *Stanford University School of Medicine, Stanford, CA*

## THURSDAY POSTERS

### POSTER SPACE

- ThP 477 **Chemical Tagging Methods for Analysis of Protein N-Terminus**; Hongying Zhong; Joseph Fernandez; Nagarajan Chandramouli; Haiteng Deng; *The Rockefeller University, New York, NY*
- ThP 478 **A Novel Size-Label for Sorting Phosphopeptides for Mass Spectrometry**; Yu Shi; Xudong Yao; *Chemistry Department, University of Connecticut, Storrs, CT*
- ThP 479 **Probing the Active Sites of Adenosine Nucleotide-Binding Proteins by Affinity Labeling and LC-MS/MS**; Haibo Qiu; Yinsheng Wang; *University of California, Riverside, Riverside, CA*
- ThP 480 **Identification of Novel Protein Interactions in the eIF4E-mRNA Complex by Tandem Affinity Purification using a Chimeric Construct of eIF4E-calbindin-IgG**; Laurent Volpon<sup>1</sup>; Nadeem Siddiqui<sup>1</sup>; Michael J Osborne<sup>1</sup>; Ivan Topisirovic<sup>1</sup>; Mike Aguiar<sup>2</sup>; Katherine LB Borden<sup>1</sup>; Bernard F Gibbs<sup>2</sup>; <sup>1</sup>*Dept. of Pathology and Cell Biology, U de Montreal, Montreal, Canada*; <sup>2</sup>*Sheldon Biotechnology Center, McGill University, Montreal, Canada*
- ThP 481 **Augmented Limits of Detection for Peptides with Hydrophobic Alkyl Tags (ALiPHAT)**; Jennifer L. Frahm; Adam M. Hawkrigde; Daniel L. Comins; Ibrahim D. Bori; David C. Muddiman; *NC State University, Raleigh, NC*
- ThP 482 **Click Chemistry as a Proteomic Approach to Identify Protein Targets of Thiol-Reactive Electrophiles**; Kripa Keerthi; Elizabeth B Burnette; Daniel C Liebler; *Vanderbilt University, Nashville, TN*
- ThP 483 **Mass Defect Labeling of Tryptophan for Improving Protein Identification in Shotgun Proteomic Analyses**; Chunyan Li; Ryan M. Phillips; George F. Majetich; I. Jonathan Amster; *University of Georgia, Athens, GA*
- ThP 484 **Application of the Cross-Linker Based Protein Interaction Reporter Technology to *Saccharomyces cerevisiae***; Natalia L. Zakharova<sup>1</sup>; Gerhard R. Munske<sup>1</sup>; Gordon A. Anderson<sup>2</sup>; Nikola Tolic<sup>2</sup>; Xiaoting Tang<sup>1</sup>; James E. Bruce<sup>1</sup>; <sup>1</sup>*Washington State University, Pullman, WA*; <sup>2</sup>*Pacific Northwest National Laboratory, Richland, WA*
- ThP 485 **Biotinylation and MS Analysis: A Combined Approach for the Identification of the Surface Exposed Residues of Hsp90**; Wendell P. Griffith<sup>1</sup>; Xueguang Lui<sup>2</sup>; Dwella M. Nelson<sup>1</sup>; Jennifer S. Isaacs<sup>2</sup>; Robert J. Cotter<sup>1</sup>; <sup>1</sup>*Johns Hopkins School of Medicine, Baltimore, MD*; <sup>2</sup>*Medical University of South Carolina, Charleston, SC*

### PROTEOMICS: LOWER ORGANISMS

486 - 491

- ThP 486 **Comparative Profiling of Proteins Associated with Aluminum Tolerance in Maize Root Tips by 2D-gel Electrophoresis/LC-MS/MS**; Yong Yang<sup>1</sup>; Sheng Zhang<sup>2</sup>; Theodore W Thannhauser<sup>1</sup>; <sup>1</sup>*USDA-ARS, US Plant, Soil & Nutrition Laboratory, Ithaca, NY*; <sup>2</sup>*Proteomics & Mass Spectrometry Core Facility, Cornell University, Ithaca, NY*
- ThP 487 **Protein Reference Map of *Thermoplasma acidophilum* and Implications for Macromolecular Complexes**; Na Sun; Florian Beck; Roland Wilhelm Knispel; Frank Siedler; Beatrix Scheffer; Stephan Nickell; Wolfgang Baumeister; Istvan Nagy; *Max-Planck-Institute for Biochemistry, D-82152 Martinsried, Germany*

### POSTER SPACE

- ThP 488 **Proteome Profile of *Danio rerio* (Zebrafish) Gill Using 2D LC-ESI QTOF MS/MS**; Andrea G. De Souza; Tyson MacCormack; Greg G. Goss; Liang Li; *University of Alberta, Edmonton, Canada*
- ThP 489 **Identification of Mycobacteria and Mycobacteria Biomarker Proteins by Novel Biological Sample Preparation Combined with Tandem Mass Spectrometry**; Miquel D. Antoine<sup>1</sup>; Nathan Hagan<sup>1</sup>; Timothy Cornish<sup>1</sup>; Justin Hettick<sup>2</sup>; Plamen A. Demirev<sup>1</sup>; <sup>1</sup>*JHU-APL, Laurel, MD*; <sup>2</sup>*CDC, NIOSH, Morgantown, WV*
- ThP 490 **Proteomic Analysis of Lysine Acetylation in Yeast**; Junmei Zhang; Sung Chan Kim; Yue Chen; Yingming Zhao; *University of Texas Southwestern Medical Center, Dallas, TX*
- ThP 491 **Large Scale Label-Free and cICAT-based Comparative Proteomics of an Arabidopsis Clp Protease Mutant; Consequences for Leaf Development and Protein Homeostasis**; Paul Dominic B. Olinares; Giulia Friso; Boris Zybailov; Andrea Rudella; Qi Sun; Klaas J. van Wijk; *Plant Biology, Cornell University, Ithaca, NY*

### PROTEOMICS: QUANTITATION TECHNIQUES II 492 - 518 and 533

- ThP 492 **Delving Deeper into Proteomes to Generate Quantitative Data**; Julia Smith; Isaac Matus; Andrew Greene; *Medical College of Wisconsin, Milwaukee, WI*
- ThP 493 **A Comparison of Separation Strategies for Proteomic Samples Labeled with iTRAQ™ Reagents at the Protein Level**; Matthew Willetts<sup>1</sup>; Pete Ulintz<sup>2</sup>; Marjorie Minkoff<sup>1</sup>; R Marks<sup>2</sup>; Philip Andrews<sup>2</sup>; <sup>1</sup>*Applied Biosystems, Framingham, MA*; <sup>2</sup>*University of Michigan, Ann Arbor, MI*
- ThP 494 **Identification and Quantification of P53 Hot Spot Mutations by using Restriction Fragment Mass Polymorphism (RFMP) and Absolute QUantification of protein (AQUA)**; Joo Young Bang; *Konkuk Univtsty, Seoul, South Korea*
- ThP 495 **Differential Protein Expression of Human Vitreous Fluids Using 8-plex iTRAQ Reagent Labeling and nanoLC MALDI-TOF/TOF Mass Spectrometry**; Ruiqing Qiu<sup>1</sup>; Marjorie Minkoff<sup>1</sup>; Philip Ross<sup>1</sup>; Matthew Willetts<sup>1</sup>; Judy Quong<sup>2</sup>; <sup>1</sup>*Applied Biosystems, Framingham, MA*; <sup>2</sup>*Thomas Jefferson University, Philadelphia, PA*
- ThP 496 **Spectral Indexing Reveals Quantitative Differences Between Endothelial Cell Caveolae and Plasma Membrane Proteomes**; Noelle M Griffin; Jingyi Yu; Anne Simonson; Phil Oh; Yan Li; Brea Midthune; Sabrina Shore; Halina Witkiewicz; Jan E Schnitzer; *Sidney Kimmel Cancer Center, San Diego, CA*
- ThP 497 **Development of Quantitative Monitoring Method for the Detection of Mutations in Bcr-Abl from Chronic Myeloid Leukemia**; Jung Ok Park; *Konkuk University, Seoul, South Korea*
- ThP 498 **A Novel Integrated Method Coupling 2D GeLC-MS/MS with Protein Abundance Index for Improved Accuracy in 2D Gel-based Comparative Proteomics**; Yong Yang<sup>1</sup>; Theodore Thannhauser<sup>1</sup>; Li Li<sup>1</sup>; Sheng Zhang<sup>2</sup>; <sup>1</sup>*US Plant Soil and Nutrition Laboratory, Cornell U, Ithaca, NY*; <sup>2</sup>*Proteomics and Mass Spectrometry, Cornell Univ, Ithaca, NY*
- ThP 499 **In vitro Synthesis of Stable-Isotope Labeled Proteins for Use as Internal Standards in Quantitative Mass Spectral Measurements of Clinical Proteins**; Johanna

THURSDAY POSTERS

POSTER SPACE

- ThP 500 **Antibody-Independent Quantitation of Cellular Phosphoproteins**; E. Camara; Faith A. Hays; Nathan G. Dodder; David M. Bunk; *NIST, Gaithersburg, MD*
- ThP 501 **Investigation Into Changes into the Spheroplast and Mitoproteome of *Saccharomyces Cerevisiae* Induced by Recombinant AOX using SILAC**; Rowan Laura Dobson<sup>1</sup>; <sup>1</sup>Laboratory of Mass Spectrometry, Liège, Belgium; <sup>2</sup>Laboratory of Bioenergetics, Liège, Belgium
- ThP 502 **Investigation on the Role of Huntingtin Phosphorylation in the Pathogenesis of Huntington's Disease**; Xin Cong; Birgit Schilling; Juliette Gafni; Cameron Torcassi; Lisa M. Ellerby; Bradford W. Gibson; *Buck Institute for Age Research, Novato, CA*
- ThP 503 **Comparative Study of Five Methods for Quantitative Proteomics; cICAT, iTRAQ, ICPL, <sup>18</sup>O, and Acetylation, using Tandem Mass Spectrometry**; Monica H. Elliott; Candice Madalena; Darryl Hardie; Leanne Ohlund; Derek Smith; Christoph H. Borchers; *University of Victoria/Genome BC Proteomics Centre, Victoria, Canada*
- ThP 504 **Tackling the Challenge of Quantifying Co-Migrating Proteins in Two Dimensional Gel Electrophoresis-Based Proteome Analysis**; Maarten Dhaenens; *Ghent University, Ghent, Belgium*
- ThP 505 **Absolute SILAC: Absolute Quantitation of Proteins in Complex Mixtures using Recombinant Stable Isotope Labeled Proteins**; Stefan Hanke; Hüseyin Besir; Dieter Oesterhelt; Matthias Mann; *Max-Planck-Institute for Biochemistry, Munich, Germany*
- ThP 506 **Absolute Quantification of Two Biomarkers of GH Abuse using LC-ID-MS/MS**; Stéphanie Kirsch; Joelle Widart; Edwin De Pauw; *University of Liege, Liege, Belgium*
- ThP 507 **Directly Identify Protein N-Terminal Residues by Mass Spectrometry and Its Potential Applications in Protein-Level Comparative Proteomics**; Jue-liang Hsu; Ding-Tzai Li; Fong-Ku Shi; *Life Science Business Unit of CSUN MFG. Ltd., Tainan county, Taiwan*
- ThP 508 **An Approach for Absolute Quantification of Therapeutic Proteins in Plasma Using 2D-SPE Coupled with LC-MS/MS**; Ziping Yang; Michael Hayes; Xinping Fang; Francis Tse; *Novartis Pharmaceuticals Corporation, East Hanover, NJ*
- ThP 509 **Quantitative Analysis of Yeast Protein Expression using the Protein iTRAQ Reagent Strategy**; Patrick Pribil<sup>1</sup>; Shixin Sun<sup>2</sup>; Marjorie Minkoff<sup>2</sup>; <sup>1</sup>MDS Sciex, Concord, Canada; <sup>2</sup>Applied Biosystems, Framingham, MA
- ThP 510 **A New Strategy for Quantitative Proteomic Analysis of Organisms with Unsequenced Genomes**; Tomas Rejtar; Marina Hincapie; John T. Oldham; Carolyn W.T. Lee-Parsons; Jennifer G. Dy; Barry L. Karger; *Northeastern University, Boston, MA*
- ThP 511 **Quantitative Proteomic Analysis of Oral HPV Lesions from HIV Patients using Mass Spectrometry**; Marlene M. Darfler<sup>1</sup>; Mohit R. Jain<sup>2</sup>; Tong Liu<sup>2</sup>; Jun Hu<sup>2</sup>; Valere Fitzhugh<sup>2</sup>; Joseph Rinaggio<sup>3</sup>; Hong Li<sup>2</sup>; <sup>1</sup>Expression Pathology Inc., Gaithersburg, MD; <sup>2</sup>UMDNJ-New Jersey Medical School, Newark, NJ; <sup>3</sup>UMDNJ-New Jersey Dental School, Newark, NJ

POSTER SPACE

- ThP 512 **Relative Protein Quantification by Isobaric SILAC with Immonium Ion Splitting (ISIS)**; Mara Colzani<sup>1</sup>; Alexandra Potts<sup>1</sup>; Patrice Waridel<sup>1</sup>; Frederic Schutz<sup>2</sup>; Manfredo Quadroni<sup>1</sup>; <sup>1</sup>University of Lausanne, Epalinges, Switzerland; <sup>2</sup>Swiss Institute of Bioinformatics, Lausanne, Switzerland
- ThP 513 **Evaluation of SISCAPA; an Automated Targeted Biomarker Enrichment and Validation Platform**; Angela Jackson<sup>1</sup>; Derek Smith<sup>1</sup>; Jamie Thomas<sup>2</sup>; Terry Pearson<sup>2</sup>; Christoph Borchers<sup>1</sup>; Leigh Anderson<sup>3</sup>; <sup>1</sup>University of Victoria Genome BC Proteomics Centre, Victoria, Canada; <sup>2</sup>University of Victoria, Victoria, Canada; <sup>3</sup>Plasma Proteome Institute, Washington, DC
- ThP 514 **Combining Quantitative Proteomics by Stable Isotope Labeling with Top-Down Mass Spectrometry**; Leonie F. Waanders; Stefan Hanke; Jesper V. Olsen; Matthias Mann; *Max Planck Institute for Biochemistry, Martinsried, Germany*
- ThP 515 **Quantitative Analysis of Mice Synaptic Membranes with 8-plex iTRAQ Reagents**; Roel C. van der Schors<sup>1</sup>; Huibert D. Mansvelder<sup>1</sup>; Rhiannon M Meredith<sup>1</sup>; Oleg Klychnikov<sup>1</sup>; Sabine Spijker<sup>1</sup>; Jianru Stahl-Zeng<sup>2,3</sup>; Brian Williamson<sup>2,3</sup>; August B. Smit<sup>1</sup>; Ka Wan Li<sup>1</sup>; <sup>1</sup>CNCR, Vrije Universiteit, Amsterdam, Netherlands; <sup>2</sup>Applied Biosystems, Darmstadt, Germany; <sup>3</sup>Applied Biosystems, Framingham, MA
- ThP 516 **Identification of Biological Marker Proteins in the Patient Serum with a Pregnancy Induced Hypertension (PIH) using Proteomic Approach**; Ji Sook Park; *Konkuk Univ., Seoul, South Korea*
- ThP 517 **Use of DNA Ladders for Reproducible Protein Fractionation by SDS-PAGE for Quantitative Proteomics**; Guoan Zhang<sup>1</sup>; David Fenyó<sup>2</sup>; Thomas A. Neubert<sup>1</sup>; <sup>1</sup>New York University School of Medicine, New York, NY; <sup>2</sup>The Rockefeller University, New York, NY
- ThP 518 **Comprehensive Quantitative Analyses on Protein Dynamics of The Human Pathogen *Staphylococcus aureus* by the Implementation of an 8-plex iTRAQ Labeling**; Susanne Wolff<sup>1</sup>; Jianru Stahl-Zeng<sup>2</sup>; Michael Hecker<sup>1</sup>; Dörte Becher<sup>1</sup>; <sup>1</sup>University, Greifswald, Germany; <sup>2</sup>Applied Biosystems, Darmstadt, Germany
- Please go to 533 for the poster below.
- ThP 533 **A Fast Method for Determination of Human Insulin and Its Deamination Product by Electropray Mass Spectrometry**; Teerapat Rojsajakul; Kelsey D. Cook; *University of Tennessee, Knoxville, TN*

PROTEOMICS: BIOCHEMISTRY (GEL BASED)  
519 - 532

- ThP 519 **S100b Induced Chromatin Remodeling at the Human Cyclooxygenase-2 (COX-2) Promoter**; Thomas K. Bane; Narkunaraja Shanmugam; Yunan Miao; Roger Moore; Arthur D. Riggs; Rama Natarajan; Terry D. Lee; *City of Hope Nat'l Med Center, Duarte, CA*
- ThP 520 **Composition of the Synaptic PSD-95 Complex**; Ayse Dosemeci<sup>1</sup>; A. James Makusky<sup>2</sup>; Ewa Jankowska-Stephens<sup>2</sup>; Xiaoyu Yang<sup>2</sup>; Douglas J. Slotta<sup>2</sup>; Sanford P. Markey<sup>2</sup>; <sup>1</sup>NINDS, NIH, Bethesda, MD; <sup>2</sup>NIMH, NIH, Bethesda, MD
- ThP 521 **Proteomics in a Unique Fish Melanoma Model using 2D PAGE, DIGE, and COFRADIC**; Katrin Denker; Albert Sickmann; *Rudolf Virchow Center, Wuerzburg, Germany*



THURSDAY POSTERS

POSTER SPACE

- ThP 522 **Proteomics of Toxoplasma Gondii Tubulin;** Hui Xiao; Pascal Verdier-Pinard; Berta Burd; Fayun Che; Hongshan Zhang; Kami Kim; Louis M. Weiss; Ruth H. Angeletti; *Albert Einstein College of Medicine, Bronx, NY*
- ThP 523 **Identification of the Interacting Proteins to the Noradrenergic Neuron Specific Transcription Factor, Phox2, by ESI-Ion-Trap MS and ChIP Analysis;** Jinkyu Lim; Ilyn L. Santos; Hyun-Soo Choi; *Kyungpook University, Daegu, South Korea*
- ThP 524 **Analysis of Protein-Protein Interactions within EphB2-NG108 Cells in Response to EphrinB1-Fc Stimulation by Blue Native PAGE and Mass Spectrometry;** Costel C. Darie; Daniel S. Spellman; Vivekananda Shetty; Wen Chen; Thomas A. Neubert; *Skirball Institute/New York University, New York, NY*
- ThP 525 **Proteomic Analysis Suggests That the Bystander Effect in Trout Gill is Protective;** Jiaxi Wang<sup>1</sup>; Richard W. Smith<sup>2</sup>; Carmel E. Mothersill<sup>2</sup>; Colin B. Seymour<sup>2</sup>; M. Kirk Green<sup>1</sup>; <sup>1</sup>MRCMS, *McMaster University, Hamilton, Canada*; <sup>2</sup>McMaster University, *Hamilton, Canada*
- ThP 526 **Cdc48, the Homolog of Mammalian p97, Mediates Aggresomal Deposits in Yeast PolyQ model;** Yan Wang<sup>1</sup>; Anatoli Meriin<sup>2</sup>; Michael Sherman<sup>2</sup>; Catherine Costello<sup>1</sup>; <sup>1</sup>*Boston University/Mass Spectrometry Resource, Boston, MA*; <sup>2</sup>*Boston University, Boston, MA*
- ThP 527 **Slippery when Translated: Extensive Programmed Ribosomal Frameshifting Revealed by Proteomics;** Rachel O. Loo<sup>1</sup>; Yanan Yang<sup>2</sup>; Housna Mouttaki<sup>3</sup>; Robert Gunsalus<sup>1</sup>; Joseph A. Loo<sup>1</sup>; Michael McInerney<sup>3</sup>; <sup>1</sup>*UCLA, Los Angeles, CA*; <sup>2</sup>*Agilent Technologies, Santa Clara, CA*; <sup>3</sup>*University of Oklahoma, Norman, OK*
- ThP 528 **Integrated Time- and Dose-Resolved Proteomic, Redox Metabonomic, and Functional Analysis of the Cardioprotective Effects of Nitrite Treatment on the Heart;** David H. Perlman<sup>1</sup>; Selena Bauer<sup>2</sup>; Nathan S. Bryan<sup>2</sup>; Maria F. Garcia-Saura<sup>2</sup>; Chee C. Lim<sup>2</sup>; Bernadette O. Fernandez<sup>2</sup>; Mark E. McComb<sup>1</sup>; Catherine E. Costello<sup>1</sup>; Martin Feelisch<sup>2</sup>; <sup>1</sup>*Cardiovascular Proteomics Ctr., BUSM, Boston, MA*; <sup>2</sup>*Whitaker Cardiovascular Institute, BUSM, Boston, MA*
- ThP 529 **A Proteomic Probing of the Protein Partners in Huntington's Disease Using a Novel BAC Transgenic Model of Disease;** Dyna I. Shirasaki<sup>1</sup>; Michelle Gray<sup>2</sup>; Tara K. Murphy<sup>2</sup>; X. William Yang<sup>2</sup>; Joseph A. Loo<sup>1</sup>; <sup>1</sup>*UCLA, Dept. of Chemistry and Biochemistry, Los Angeles, CA*; <sup>2</sup>*UCLA, Brain Research Institute, Los Angeles, CA*
- ThP 530 **Neuroproteomic Analysis of Chronic Methamphetamine Treatment in Rat Cortex;** Firas Kobeissy<sup>1</sup>; Jean Lud Cadet<sup>2</sup>; Devon Graham<sup>2</sup>; Issa Isaac<sup>3</sup>; Neil Sharma<sup>3</sup>; Marjorie Chow<sup>4</sup>; Nicole Boyle<sup>4</sup>; Mark S Gold<sup>1</sup>; Kevin K. K. Wang<sup>1</sup>; <sup>1</sup>*University of Florida, Gainesville, FL*; <sup>2</sup>*Molecular Neuropsychiatry Branch/NIDA, Baltimore, MD*; <sup>3</sup>*Genomic Solutions, Ann Arbor, MI*; <sup>4</sup>*Protein Core, Gainesville, FL*
- ThP 531 **In Silico Prediction and LC-MS/MS Identification of the Outer Membrane Proteome of Actinobacillus Pleuropneumoniae;** Jacqueline Chung<sup>1</sup>; Chris Ng-Thow-Hing<sup>1</sup>; Lorne Budman<sup>1</sup>; John HE Nash<sup>2</sup>; Mario Jacques<sup>3</sup>; Robert Masse<sup>4</sup>; James W. Coulton<sup>1</sup>; Bernard F Gibbs<sup>5</sup>; <sup>1</sup>*Dept. of Microbiology and Immunology, McGill U, Montreal, Canada*; <sup>2</sup>*Inst. for Biological Sciences, NRC, Ottawa, Canada*; <sup>3</sup>*Dept. de pathologie et*

POSTER SPACE

- microbiologie, St. Hyacinthe, Canada*; <sup>4</sup>*MDS Pharma Services, Montreal, Canada*; <sup>5</sup>*Sheldon Biotechnology Center, Montreal, Canada*
- ThP 532 **Protein Synthesis is an Immediate Early Response to EGFR Signaling;** Tim Wehr<sup>1</sup>; Naina Shastri<sup>2</sup>; Nora Bayani<sup>2</sup>; Ning Liu<sup>1</sup>; Aran Paulus<sup>1</sup>; Richard M. Neve<sup>2</sup>; <sup>1</sup>*Bio-Rad Labs, Hercules, CA*; <sup>2</sup>*Lawrence Berkeley National Laboratory, Berkeley, CA*

**PROTEOMICS: SAMPLE PREPARATION & METHODS (GEL BASED)  
534 - 544**

- ThP 534 **Importance of Sample Preparation for MS Analysis of Protein Complexes Purified by Blue Native Gels;** Mahbod R. Hajivandi; Tom Beardslee; Xiquan Liang; Paul Predki; Marshall Pope; *Invitrogen, R & D, Carlsbad, CA*
- ThP 535 **Plasma Protein and Post Translational Modification Study on New 2D Electrophoresis Gels Exhibiting Outstanding Properties for MS Analysis;** Caroline Tokarski<sup>1</sup>; Florence Guerard<sup>1</sup>; Olivia Guerre<sup>1</sup>; Anatoli Tassis<sup>2</sup>; Christian Rolando<sup>1</sup>; <sup>1</sup>*Univ. des Science/Tech de Lille, Villeneuve d'Ascq, France*; <sup>2</sup>*Elchrom, Cham, Switzerland*
- ThP 536 **An In-gel Derivatization Method for the Identification of Proteolytic Cleavage Sites;** J. Isabella Zhang<sup>1</sup>; Jingwei Li<sup>1</sup>; N. Naomi Jayasuriya<sup>1</sup>; Patrick D. Haller<sup>1</sup>; Mari Enoksson<sup>2</sup>; Guy Salvesen<sup>2</sup>; W. Andy Tao<sup>1</sup>; <sup>1</sup>*Purdue University, West Lafayette, IN*; <sup>2</sup>*Burnham Institute, San Diego, CA*
- ThP 537 **Proteomic Profiling of Fructose-Induced Hepatic Steatosis;** Lihe Zhang; Steven Ringquist; Massimo Trucco; Henry Dong; *Children's Hospital of Pittsburgh, Pittsburgh, PA*
- ThP 538 **Proteomic Analysis of Mucin Glycoproteins and Their Complexes After Agarose Gel Electrophoresis;** Mehmet Kesimer; Genevieve DeMaria; John K. Sheehan; *University of North Carolina, Chapel Hill, NC*
- ThP 539 **Reversed Gel Filtration for the Sample Preparation;** Ashok K. Shukla; Mukta Shukla; *Glygen Corp., Columbia, MD*
- ThP 540 **Aging and the Insolubleome: Identifying SDS-insoluble Proteins from Brains of Aging and Neurodegenerative Disease Mouse Models by Mass Spectrometry;** Birgit Schilling; Aaron Miller; John P. Miller; Emily A. Gaman; Lisa M. Ellerby; Bradford W. Gibson; Robert E. Hughes; *Buck Institute for Age Research, Novato, CA*
- ThP 541 **A Simple Method To Remove Salt From IPG Strips Prior To Isoelectric Focusing;** Carrie J. Heppelmann; Linda M. Benson; H. Robert Bergen, III; *Mayo Foundation, Rochester, MN*
- ThP 542 **Three-layer "Sandwich" Gel Electrophoresis: A Novel Method for Salt Removal and Protein Concentration;** Ting Liu; Angela M. Martin; Anthony P Sinai; Bert C Lynn; *Univ. of Kentucky, Lexington, KY*
- ThP 543 **Size-Based Peptide Sorting: Gel Mobility Study of Cysteinylyl Tryptic Peptides;** Alexis Ramos; Xudong Yao; *University of Connecticut, Storrs, CT*
- ThP 544 **To See the Unseen: Specific Localization of Proteins using Score Imaging?;** Paulo Marcelo<sup>1</sup>; Arnaud Bruneel<sup>2</sup>; Iman Haddad<sup>1</sup>; Bruno Baudin<sup>2</sup>; Jean Rossier<sup>1</sup>; Joelle Vinh<sup>1</sup>; <sup>1</sup>*ESPCI/CNRS, Paris, France*; <sup>2</sup>*Hopital Saint-Antoine, Paris, France*

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Aakre, Mary E	ThP 471	Agar, Jeffrey N	MP 476	Allis, C. David	MP 458
Aaserud, David	MOG pm 03:50	Agar, Jeffrey N	MP 577	Allison, John	WP 242
Abbatiello, Susan E	TOB pm 02:50	Agar, Jeffrey N	MP 190	Allmaier, Günter	WP 435
Abbatiello, Susan E	MP 422	Agar, Jeffrey N	ThP 023	Allmaier, Günter	TP 079
Abbatiello, Susan E	ThP 461	Agar, Nathalie YR	TP 298	Allmaier, Günter	WP 041
Abernethy, Lynn	TP 228	Agarwal, Suraj	ThP 127	Alm, Henrik	TP 473
Abraham, Ann	WP 386	Ageta, Hiroshi	ThP 093	Al-Mamoon, Shamim	TP 263
Abraham, Paul	TP 531	Agnew, Brian	TP 374	Almaraz, Ruben T	TP 535
Abraham, Paul E	WP 425	Agus, David	ThP 266	Almeida, Reinaldo	ThP 216
Abraham, Paul E	TP 529	Ahn, Joomi	MP 580	Almeida, Reinaldo	WP 506
Abrahamsson, Peter	ThP 200	Ahn, Jung-Mo	MP 380	Almstedt, Matilda	WP 517
Abzalimov, Rinat R	ThP 279	Ahn, Natalie	ThP 410	Alper, Hal	WP 437
Abzalimov, Rinat R	WOC pm 03:10	Ahn, Soyoun	WP 395	Alpert, Andrew J	MP 438
Acheampong, Andrew	TOD pm 03:30	Ahn, Sung Min	MP 541	Altman, Matthew C	MP 465
Acheson, Brian E	MP 401	Ahtinen, Jouni	ThP 267	Alton, Dennis	TP 230
Ackermann, Bradley	TP 460	Aiello, Mauro	ThOC pm 04:10	Alvarez-Manilla, Gerardo	MP 205
Ackermann, Bradley L	MP 417	Aiello, Mauro	TOD pm 03:30	Alvarez-Manilla, Gerardo	WP 299
Adamec, Jiri	TP 323	Aiello, Mauro	MP 243	Alves, Gelio	MP 185
Adamec, Jiri	WP 404	Aiello, Mauro	ThP 197	Alves, Gelio	ThP 253
Adamec, Jiri	WP 207	Aiello, Ph.D., Mauro	WP 569	Alves, Pedro	WP 270
Adamec, Jiri	ThP 459	Aiken, Judd	TP 454	Alves, Pedro	ThP 264
Adamec, Jiri	ThP 380	Ainley, S.A	ThP 171	Alves, Pedro	TP 317
Adamov, Alexey	WP 098	Aistars, Arnie	ThP 212	Alves, Pedro	ThP 088
Adams, Christopher	TOB am 08:15	Ait Menguellet, Sonia	TP 299	Alves, Sandra	WP 355
Adams, Christopher	TP 457	Aizikov, Konstantin	MP 055	Alves, Sandra	WP 026
Adams, Christopher M	MOA am 09:35	Aizikov, Konstantine	MP 054	Alves, Sandra	WP 034
Adams, Jeanette	MP 014	Akashi, Satoko	TP 333	Alves, Sandra	WP 147
Adams, Michael	WP 434	Aker, Jocelyn	WOD pm 04:10	Aman, M. Javad	MP 492
Adams, Michael W. W	WP 423	Akhmetov, Artem	WP 055	Amano, Junko	ThP 390
Adamson, Julie T	TP 194	Akhtar, Shahzad	TP 254	Amantonico, Andrea	MP 294
Adamson, Julie T	WOB am 08:15	Akhtar, Shahzad	MP 235	Amare, Andinet	MP 362
Adarayan, Emily	MOD am 10:35	Akihisa, Toshihiro	WP 399	Amato, Anthony	MP 538
Adcock, Jamie	ThP 005	Akinsanya, J. BILLY	WP 172	Amin, Jakal	ThP 290
Addison, Tom	WP 320	Aksenov, Alex A	MP 080	Amirav, Aviv	ThP 238
Addona, Terri	MP 522	Aksenov, Alexander	TP 112	Amirav, Aviv	TOG am 09:35
Addona, Terri	TOB pm 03:10	Al Bataineh, Mohammad M	WP 317	Amirav, Aviv	TP 031
Adeuya, Anthony	TP 200	Alaee, Mehran	TP 092	Ammar, Ali	ThP 460
Adkins, Joshua	MP 450	Alaee, Mehran	ThP 130	Amorusi, Peter	MP 307
Adkins, Joshua N	WP 280	Alak, Ala M	TP 254	Amshey, Joseph W	MP 436
Adler, Jenny	MP 467	Alary, Jean-François	ThP 214	Amstalden, Erika R	TP 297
Adler, Ryan	MP 256	Albrecht, Amy	TP 575	Amster, I. Jonathan	TP 210
Admon, Arie	MP 332	Albrecht, Wolfgang	WP 390	Amster, I. Jonathan	WOB am 09:35
Aebersold, Ruedi	MP 420	Aldersley, Michael F	ThP 373	Amster, I. Jonathan	MP 053
Aebersold, Ruedi	WOD pm 03:30	Aldor, Ilana S	TP 479	Amster, I. Jonathan	ThP 483
Aebersold, Ruedi	WP 281	Aldrich, Jane V	MP 412	Amster, I. Jonathan	WP 140
Aebersold, Ruedi	TP 169	Alecio, Robert	TP 542	Amster, I. Jonathan	TP 371
Aebersold, Ruedi	WP 493	Alecio, Robert	ThP 262	Amunugama, Ravindra	MOB am 09:55
Aebersold, Ruedi	ThOA pm 04:10	Aleksic, Maja	TP 569	Amy, Jonathan	MP 049
Aebersold, Ruedi	MP 387	Aleksic, Maja	MP 342	An, Eunkyung	TP 301
Aebersold, Ruedi	ThOA am 08:55	Aleksic, Maja	MP 587	An, Hyun Joo	MP 212
Aebersold, Ruedi	MP 152	Alexander, Michael S	ThP 291	An, Hyun Joo	ThP 382
Aebersold, Ruedi	TOB pm 04:10	Alexandrova, Ludmila	ThOD pm 02:50	An, Hyun Joo	TP 383
Aebersold, Ruedi	ThP 255	Alexi, Xanthippi	TP 469	An, Hyun Joo	MP 207
Aebersold, Ruedi	MOB pm 04:50	Alexis, Michael N	TP 469	Andaya, Armann	TOD am 08:35
Aebersold, Ruedi	MP 558	Alford, Rachael	TP 047	Andersen, Jens S	WP 468
Aebersold, Ruedi	TP 175	Al-Hendy, Ayman	ThOB am 09:55	Andersen, Jens S	MP 557
Aerni, Hans-R	TP 572	Ali, Asgar	ThP 127	Andersen, Julie K	TP 513
Aerni, Hans-Rudolf	WP 052	Ali, Sadia	WP 433	Anderson, Carly R	WP 048
Aerts, Johannes M.F.G	MP 499	Aliman, Michel	WP 092	Anderson, David J	WP 533
Afanas'ev, Maxim V	ThOC pm 02:50	Allan, Laurie	MP 407	Anderson, David J	MP 221
Affolter, Michael	TP 308	Allegood, Jeremy	WP 420	Anderson, David J	ThP 211
Afonso, Carlos	MP 057	Allen, Mark	TP 349	Anderson, Gordon A	ThP 474
Afonso, Carlos	MP 102	Allen, Mark	WP 506	Anderson, Gordon A	ThP 484
Afonso, Carlos	MP 048	Allen, Mark	TP 369	Anderson, Gordon A	MP 560
Afonso, Carlos	TP 188	Allen, Martin	TP 424	Anderson, Gordon A	MOB pm 05:10
Afonso, Carlos	WOG am 09:15	Allen, Michael S	TP 249	Anderson, Kevin K	WP 428
Aft, Rebecca, L	WP 384	Allen, Scott I	TP 109	Anderson, Leigh	ThP 513
Aga, Diana	ThP 132	Allen, Simon	MP 404	Anderson, Leigh	MOA pm 05:10
Aga, Diana S	WP 219	Alley, William R	ThP 394	Anderson, Lorraine B	MP 233
Agar, Jeffrey N	TP 298	Alley, Jr, William R	ThP 385	Anderson, Lorraine B	WP 492

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Anderson, Lorraine B	TP 554	Arellano-Garcia, Martha	WP 487	Atwood, James A	MP 205
Anderson, Michelle A	WOA pm 02:50	Arfin, Stuart	ThP 263	Atwood, James A	WP 299
Anderson, Nadine	WP 191	Argoti, Dayana	MP 360	Atwood, James A	ThP 381
Anderson, Scott	TP 495	Arias, Alfonso Martinez	WOD pm 02:30	Atwood, James A	ThP 258
Anderson, Theodore D	WP 236	Arigi, Emma A	WP 288	Atwood, James A	ThP 386
Andersson, Jan T	TOG am 08:35	Arita, Masanori	ThP 165	Atwood III, James	WP 258
Andersson, Jan T	MP 146	Arita, Masanori	ThP 167	Au, Nora	MOA pm 04:10
Ando, Eiji	TP 497	Arjomand, Ali	MP 249	Auberry, Deanna L	WP 428
Ando, Eiji	TP 505	Arkinstall, David	ThP 004	Auberry, Kenneth J	WP 280
Andon, Nancy	MP 379	Armenta, Jenny M	WP 539	Aufman, Dan J	TP 250
Andon, Nancy	MP 390	Armenta, Jenny M	WP 204	Auger, Paul	WP 484
Andra, Syam S	ThP 135	Armenta, Jenny M	WP 502	Auger, Serge	WP 246
Andrade, Francisco J	WP 064	Armentrout, Peter B	ThOC am 08:15	Augusti, Rodinei	WP 111
Andrade, Francisco J	TOF pm 02:50	Armstrong, Daniel W	WP 406	Augustin, Angelique	MP 554
Andrade, Francisco J	WOG pm 04:10	Armstrong, Daniel W	WP 136	Aurand, Craig	ThP 208
Andrecht, Sven	ThP 468	Armstrong, Marcia	ThP 434	Aurand, Craig R	ThP 199
Andrecht, Sven	MP 165	Arndt, Michael	WP 033	Auriola, Seppo	MP 286
Andrecht, Sven	ThP 207	Arnold, Nikita D	MP 182	Austin, Daniel E	WOF pm 03:30
Andren, Per E	MP 371	Arnold, Randy J	WP 270	Austin, John	TP 385
Andren, Per E	WP 069	Arnold, Randy J	TP 317	Avtonomov, D.M	MP 023
Andren, Per E	ThP 095	Arnold, Randy J	ThP 264	Awazu, Kunio	MP 074
Andrén, Per E	MP 370	Arnold, Randy J	ThP 088	Awazu, Kunio	MP 075
Andrén, Per E	TP 473	Arnotskaya, Natalia E	TP 485	Awazu, Kunio	WP 032
Andrews, Philip	ThP 493	Arnott, David	TP 279	Ayala, Edy	MP 086
Andrews, Philip	MP 543	Arnott, David	ThP 439	Aygün, Hüseyin	ThOC am 09:35
Andrews, Philip C	MP 426	Arnould, Mark	TP 130	Ayson, Marites J	WP 150
Andrews, Philip C	TP 149	Arquier, Delphine	ThP 330	Azumaya, Hidehiko	ThP 188
Andrews, Philip C	ThP 162	Arraez-Ramon, David	ThP 349	Baba, Takashi	WP 086
Andrews, Philip C	ThP 438	Arraez-Ramon, David	ThP 122	Baba, Takashi	TP 277
Andrews, Philip C	MP 173	Arriaga, Edgar A	ThOE pm 04:10	Baba, Takashi	MP 100
Andrews, Philip C	MP 170	Arriaga, Edgar A	MP 534	Baba, Takashi	TP 023
Andrews, Philip C	WP 281	Artaev, Viatcheslav	TOF am 09:15	Babu, I. Ramesh	TP 464
Andrews, Philip C	TP 164	Artaev, Viatcheslav	TP 004	Bach, Stephan	ThP 135
Andrews, Philip C	WOA pm 03:30	Artemenko, Konstantin A	ThP 080	Bach, Stephan B.H	MP 034
Andrews, Philip C	MP 186	Arvola, Ville	TOF pm 04:10	Bache, Nicolai	TP 409
Andrews, Philip C	ThP 439	Asara, John M	MP 179	Bacic, Antony	ThP 405
Andrien, Bruce A	TP 047	Asara, John M	TP 310	Back, Jaap Willem	TP 353
Andrien, Bruce A	ThP 031	Asea, Alexander A	ThP 455	Backert, Steffen	WP 535
Andrzejewski, Denis	MP 315	Ashcroft, Alison E	WP 151	Backlund, Peter S	ThP 435
Andrzejewski, Denis	TOA am 08:35	Ashcroft, Alison E	MOE pm 04:30	Bäckman, Ola	TP 540
Angel, Peggi	TP 095	Ashgriz, Nasser	TP 019	Bader, Sabine	WP 266
Angel, Peggi M	MP 537	Ashgriz, Nasser	MP 038	Bader, Sabine	ThP 270
Angeletti, Ruth Hogue	ThP 522	Ashline, David	MP 211	Badman, Ethan	WP 097
Angeletti, Ruth Hogue	TP 537	Ashline, David	WOB am 08:35	Badman, Ethan R	WP 366
Angeletti, Ruth Hogue	TP 156	Ashline, David	TOE pm 03:50	Badman, Ethan R	ThP 046
Anichina, Janna	MOG am 09:15	Ashline, David J	MP 210	Baechle, Daniel	TP 446
Annan, Roland S	MP 440	Ashman, Keith	MP 405	Baek, Moon-Chang	ThP 395
Annan, Roland S	ThP 500	Ashton, Simon	WP 267	Baek, Nam-In	WP 365
Annan, Roland S	TP 326	Ashton, Simon	TP 252	Baessmann, Carsten	MP 285
Annan, Roland S	WP 536	Ashton, Simon	WOB pm 04:10	Baessmann, Carsten	TP 283
Annangudi, Suresh	TP 583	Ashton, Simon	WP 359	Baessmann, Carsten	WP 543
Antler, Margaret	WP 382	Askenazi, Manior	WP 528	Baessmann, Carsten	WP 085
Antoine, Miquel D	WP 021	Askenazi, Manior	WP 531	Baessmann, Carsten	WP 352
Antoine, Miquel D	ThP 489	Askenazi, Manior	ThP 175	Baessmann, Carsten	ThP 122
Antoine, Miquel D	ThP 156	Asmus, Kyle	TP 326	Baessmann, Carsten	ThP 349
Anton, Brian	TP 527	Asnani, Aarti	WOD am 08:15	Bafna, Vineet	MP 450
Antwi, Kwasi	MP 482	Asomaning, Sam	MP 147	Bagag, Aicha	ThP 010
Anwer, Khalid	ThP 127	Asperger, Arndt	TP 394	Bagag, Aicha	TP 198
Ao, Xiaoping	TP 455	Asplund, Matthew C	MOE pm 03:30	Bagal, Dhanashri	TP 051
Aoki, Koh	WP 374	Assmann, Sarah M	ThP 120	Baggett, Scott	ThP 340
Apatskaya, Maria	MP 079	Astorga, J	ThP 413	Baggerman, Geert	MP 362
Appel, Ron D	TP 165	Astorga-Wells, Juan	WP 512	Bagramyan, Karine	ThOA pm 03:50
Appel, Ron D	ThOF am 09:15	Ataku, Hanako	TP 543	Bahn, Sabine	MP 289
Appel, Ron D	ThP 222	Atkins, William	WOC am 08:55	Bahn, Sabine	MP 532
Appelblad, Patrik	MP 312	Atkins, Jr., Norman	MP 366	Bahr, Benjamin	MP 270
Arakawa, Kiyomi	MP 081	Atkinson, Sally J	ThP 097	Bahr, Ute	ThOC am 09:35
Arakawa, Kiyomi	TP 252	Atkinson, Sally J	WP 074	Bai, Dina	MP 340
Arakawa, Ryuichi	TP 114	Atsriku, Christian	MP 404	Bai, Yu	TP 463
Arcand, Patrice	WP 246	Attygalle, Athula B	ThP 365	Baidoo, Edward	WP 371
Archakov, Alexander I	MP 419	Attygalle, Athula B	ThP 086	Baidoo, Edward	WP 429

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Baik, Mu-Hyun	TP 044	Barkow, Simon	MP 387	Bates, Gillian P	WP 549
Bailey, John	MP 262	Barnea, Eilon	MP 332	Batt, Angela L	TP 103
Baiocchi, Claudio	TP 145	Barnes, Alan	ThP 312	Baudin, Bruno	ThP 544
Bajad, Sunil	MP 281	Barnes, Alan	MP 027	Baudys, Jakob	MP 336
Bajad, Sunil	MP 295	Barnes, Alan	WP 074	Baudys, Jakob	TOA am 09:35
Bajic, Steve	WP 563	Barnes, Joni	TP 539	Bauer, Selena	ThP 528
Bakalarski, Corey E	TOE pm 02:30	Barnes, Stephen	TP 401	Baum, Laura V	TP 250
Baker, Erin Shammel	TP 055	Barnes, Stephen	MP 460	Baumann, Sven	TP 439
Baker, Peter	ThP 256	Barnes, Stephen	TP 339	Baumbach, Jörg I	WP 266
Baker, Peter	TP 150	Barnett, Matthew P.G	MP 504	Baumeister, Wolfgang	ThP 487
Baker, Peter R	MP 181	Barnidge, David R	MP 213	Baumert, Mark	TP 369
Baker, Peter R	MP 189	Barofsky, Douglas F	WP 396	Baumert, Mark	TP 349
Baker, Simon	TP 493	Barofsky, Douglas F	WP 084	Baumgart, Sabine	WP 519
Baker, Stephanie	WP 207	Barofsky, Douglas F	WP 028	Baumgarten, Sigrid	ThP 143
Baker, Stephen J	WP 335	Barofsky, Douglas F	MP 078	Bauser, Joshua A	TP 453
Bala, Elisa	MP 521	Barofsky, Douglas F	TP 089	Bautz, David	MP 335
Balafas, Vagelis	MP 421	Barone, Teresa L	WP 088	Bayani, Nora	ThP 532
Balcer, Jesse L	TP 146	Barr, Dana B	ThP 237	Bayliss, Mark A	WP 382
Balcer, Jesse L	ThP 137	Barr, John R	MP 198	Baynes, John W	TOB pm 02:30
Baldock, Sara J	WP 194	Barr, John R	MOA am 10:15	Bazin, Sharon	ThP 121
Baldwin, Brian	ThP 169	Barr, John R	TOG pm 03:50	Bazoti, Fotini N	MP 434
Baldwin, Michael M	MP 404	Barr, John R	MP 321	Beall, Maria	MP 380
Ball, Graham	ThP 259	Barran, Perdita	WP 455	Beardslee, Tom	ThP 534
Ball, Haydn L	MP 388	Barreto, V	TP 204	Beardsley, Richard L	TOD am 09:15
Ball, Haydn L	MP 393	Barrett, Kerri	MP 460	Beardsley, Richard L	WP 148
Ball, Lauren E	TP 396	Barrett-Wilt, Greg	WP 363	Beasley, Ashley	MP 364
Ball, Terry	TP 220	Barrett-Wilt, Gregory A	WP 488	Beaugrand, Claude	MP 057
Ballade, Armelle	WP 431	Barrow, Mark P	WP 223	Beaugrand, Claude	MP 048
Balland, Alain	TP 424	Barrow, Mark P	MP 144	Beausoleil, Sean A	TOE pm 02:30
Ballif, Bryan A	TOE pm 02:30	Barrow, Mark P	ThOG am 09:15	Becher, Dörte	ThP 518
Balogh, Michael	WOD am 09:35	Barshop, Bruce	MOD pm 05:10	Becher, Francois	WP 336
Balonova, Lucie	TP 372	Barsova, Sona	ThP 235	Becher, Francois	ThP 303
Baluya, Dodge L	WP 070	Baršová, Sona	TP 139	Bech-Serra, Joan J	WP 543
Baluya, Dodge L	WP 080	Bartels, Michael	ThOD am 09:35	Beck, Florian	ThP 487
Baluya, Dodge L	WP 094	Bartels, Michael J	MP 344	Beck, Jonathan R	TP 099
Banas, Jeff	MP 164	Bartels, Michael J	ThP 009	Beck, Martin	MOB pm 04:50
Bandeira, Nuno	ThP 087	Bartlett, Michael G	WP 560	Becker, Amanda J	WP 384
Bando, Yasuhiko	TP 476	Bartlett, Michael G	MP 083	Becker, C	TP 045
Bando, Yasuhiko	ThP 472	Bartlett, Michael G	TP 095	Becker, Christopher	MP 125
Bane, Thomas K	ThP 519	Bartlett, Michael G	ThP 304	Becker, Christopher	TP 052
Banfield, Jill F	WP 425	Bartlett, Michael G	ThP 240	Becker, Christopher	ThP 376
Banfield, Jillian	MP 431	Bartley, Shawn	MP 310	Becker, Christopher H	TP 486
Banfield, Jillian	TP 398	Basa, Louise	TP 053	Becker, Christopher H	WP 549
Banfield, Jillian F	TP 531	Basak, Ajoy	TP 481	Becker, J	MP 355
Bang, Joo YOUNG	ThP 494	Basha, Eman M	WP 148	Becker, Luann	WOF am 09:15
Banga, Ajay	MP 008	Bashyakarla, Varoon	MP 119	Becker, Peter	TP 309
Bangma, Chris	WP 486	Basile, Franco	WP 022	Beckett, Dorothy	MP 487
Banks, Jody	ThP 380	Basile, Franco	WP 007	Beckman, Joseph S	WP 286
Banoub, Joseph	WP 140	Basir, Yousef	MP 275	Becknell, Alan F	ThP 144
Bansal, Sukhinder	MP 223	Basir, Yousef	MP 263	Becknell, Alan F	WP 021
Bansal, Surendra	WP 559	Basnak, Gabriela	MOE pm 04:30	Bedair, Mohamed	TP 483
Bantscheff, Marcus	MOA am 10:35	Bassilian, Sara	WOD pm 03:10	Bedair, Mohamed	ThP 123
Bantscheff, Marcus	MP 437	Bassilian, Sara	WOA am 08:55	Bednarczyk, Audrey	TP 509
Bao, Ying	WP 253	Bassilian, Sara	WP 480	Beech, Steve	ThP 259
Bao, Ying	WP 329	Bäßmann, Carsten	WP 555	Beecroft, Sean	WOE pm 02:50
Barbara, Joanna E	WP 011	Batchelor, Jason D	WP 129	Beer, Ilan	MP 332
Barbe-Leborgne, Martine	ThP 143	Batchelor, Suzanne	ThP 124	Beezhold, Donald	MP 323
Barbero, Roberto	MOD am 09:35	Bateman, Kevin	WOB pm 03:30	Beezhold, Donald H	WP 433
Barbour, Alan	WP 239	Bateman, Kevin	MP 524	Begley, John A	MP 310
Barbour, Jon	MP 467	Bateman, Kevin	MOD am 09:55	Begley, Tadhg	MP 567
Barbour, Jon	ThP 414	Bateman, Kevin	TP 189	Bégos, Arlette	ThP 370
Barboza, Mariana	MP 207	Bateman, Kevin P	ThP 027	Behrens, Marina	WP 555
Barboza, Mariana	ThP 281	Bateman, Kevin P	WP 444	Beil, Eric	TP 399
Barbula, Griffin K	MP 046	Bateman, Kevin P	ThOD pm 04:10	Beil, Eric J	TP 428
Barceló, Damià	ThOG am 08:35	Bateman, Randall J	MP 529	Bekaii-Saab, Tanios	TP 251
Bardag-Gorce, Fawzia	WP 480	Bateman, Robert	ThP 051	Bel Rhlid, Rachid	TP 308
Barinaga, Charles J	WOG pm 04:10	Bateman, Robert H	TP 057	Belgacem, Omar	MP 027
Barket, Dennis	WOF am 08:35	Bateman, Robert H	TOD am 08:15	Belgacem, Omar	ThP 312
Barket, Jr., Dennis	TP 026	Bateman, Robert H	ThP 411	Belgacem, Omar	WP 091
Barkley, Robert M	TOC pm 02:50	Bates, Anna H	MP 327	Belgacem, Omar	WP 435

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Belhajjame, Khalid.....	TP 159	Bergeron, Melanie .....	TP 241	Bindschedler, Laurence V.....	ThP 116
Belisle, Christopher.....	ThP 434	Bergerud, Luke .....	WP 170	Binz, Pierre-Alain .....	ThOF am 09:15
Belisle, Christopher M.....	MP 409	Berggren, Travis .....	MOA am 09:15	Binz, Pierre-Alain .....	TP 165
Bell, David S.....	ThP 199	Berggren, W. Travis .....	MOF pm 04:50	Bird, Nigel.....	TP 287
Bell, Rebecca L.....	MP 315	Bergman, Tomas.....	WP 512	Bird, Sean.....	WP 159
Bell, Ryan J.....	TP 038	Berhitsu, Alex.....	ThP 204	Biringer, Roger G.....	TP 560
Bell, Stanley C.....	ThP 177	Berk, Greg.....	MP 262	Birks, Eric.....	WP 245
Bell, Stanley C.....	TP 413	Berkaw, Mary N.....	TP 396	Birse, Charles.....	TP 441
Bellier, Bruno.....	ThP 370	Berkout, Vadym.....	TP 022	Bischoff, Rainer.....	WP 486
Bellows, Chris.....	ThOD pm 03:50	Berkowitz, Dan E.....	MP 540	Bissé, Emmanuelle.....	TP 509
Belnap, Chris.....	MP 431	Berman, Elena S.F.....	ThP 104	Bivi, Nicoletta.....	MP 547
Belov, Mikhail.....	WOF pm 04:10	Berman, Elena S.F.....	ThP 467	Blachere, Francoise M.....	MP 323
Belov, Mikhail.....	WP 082	Berman, Elena S.F.....	TOC pm 03:50	Black, Terrence.....	WP 108
Belov, Mikhail.....	TP 055	Bermudez, Dieldrich S.....	ThP 230	Blackburn, Kevin.....	ThP 470
Belshaw, Peter J.....	MP 461	Bern, Morten.....	TP 170	Blackburn, Mary L.....	TP 542
Belshaw, Peter J.....	MOD pm 04:50	Bern, Morten.....	TP 167	Blacken, Grady R.....	MP 444
Belshaw, Peter J.....	MP 126	Berna, Michael.....	TP 460	Blackler, Adele.....	WOD pm 02:50
Bemis, Kerry.....	TP 530	Berna, Michael J.....	MP 417	Blackler, Adele.....	ThP 448
Bemis, Kerry.....	WP 542	Bernard, Tilquin.....	TP 265	Blair, Ian A.....	ThP 317
Bemish, Raymond J.....	TP 027	Bernardo, Katussevani.....	WP 368	Blair, Ian A.....	WP 380
Bemish, Raymond J.....	TP 028	Berndt, Peter.....	MP 554	Blair, Ian A.....	ThOD am 09:15
Ben Hamidane, Hisham.....	TOB am 08:55	Berne, Michael.....	TP 501	Blair, Ian A.....	MP 279
Benassi, Mario.....	WP 111	Bernstein, Bradley E.....	MOB am 09:35	Blair, Ian A.....	MP 417
Benassi Neto, Mario.....	TP 066	Berntenis, Nikolaos.....	MP 554	Blair, Lauren P.....	MP 382
Benchaar, Sabrina.....	TP 347	Berriz, Gabriel.....	WOD am 08:15	Blair, William R.....	TP 122
Benchaar, Sabrina.....	ThOE pm 02:30	Berry, Jody.....	MP 319	Blake, Daniel.....	MP 349
Bendall, Sean C.....	MP 562	Berthelette, Carl.....	ThOD pm 04:10	Blake, Thomas A.....	WP 075
Bendall, Sean C.....	WP 518	Bertile, Fabrice.....	MP 584	Blake, Thomas A.....	TP 040
Bendiak, Brad.....	ThOG pm 02:30	Bertin, Philippe.....	WP 504	Blakeslee, Joshua.....	ThP 406
Bendiak, Brad.....	TP 058	Bertone, Paul.....	WOD pm 02:30	Blakney, Greg T.....	MP 063
Bendrick-Peart, Jamie.....	MP 345	Bertozi, Carolyn.....	MP 331	Blakney, Greg T.....	MP 066
Benesch, Justin L.P.....	ThOE am 09:55	Bertozi, Carolyn.....	TP 306	Blakney, Greg T.....	MP 067
Benesch, Justin LP.....	WP 158	Bertozi, Carolyn R.....	MOC am 10:35	Blakney, Greg T.....	MP 136
Beninato, Nick.....	ThP 154	Bertrand, Diane.....	TP 559	Blakney, Greg T.....	MP 072
Benke, Peter.....	WP 371	Bertrand, Jessica.....	WP 397	Blanc, Régis.....	ThP 184
Benke, Peter.....	WP 429	Besa, Axel.....	TP 093	Blank, David.....	WP 520
Benner, Jack S.....	TP 527	Besa, Axel.....	TP 184	Blank, David.....	WP 513
Benner, Steven A.....	WP 153	Besir, Hüseyin.....	ThP 505	Blank, David.....	TP 435
Bennett, Bryson.....	MP 281	Beu, Steve C.....	MP 070	Blank, David.....	MP 518
Bennett, Eric J.....	WP 549	Beu, Steven C.....	MP 066	Blank, David.....	WP 489
Bennett, Michael.....	WOD am 09:55	Beu, Steven C.....	MP 072	Blank, David.....	MP 239
Bennett, Patrick.....	WP 327	Beyer, Brian.....	TP 390	Blank, Paul S.....	MP 191
Bennett, Patrick.....	MP 256	Beynon, Robert J.....	ThOA pm 02:30	Blankenship, James W.....	TP 140
Bennett, Patrick.....	ThP 296	Beynon, Robert J.....	WP 505	Blanksby, Stephen J.....	WP 109
Benoist, D. Michelle.....	WP 146	Bezard, Erwan.....	TP 473	Blanksby, Stephen J.....	MOC am 10:15
Benrejeb-Godefroy, Samuel.....	TP 352	Bezstarosti, Karel.....	MOA pm 03:50	Blanksby, Stephen J.....	ThP 324
Bensadek, Dalila.....	TP 515	Bharadwaj, Manish S.....	MP 533	Blaschke, Sabine.....	TP 446
Benschop, Joris.....	TP 498	Bhardwaj, Sanjeev.....	WP 466	Blase, Ryan.....	WP 107
Benson, Linda M.....	ThP 541	Bhat, Shaila.....	MP 533	Blase, Ryan C.....	TP 056
Benter, Thorsten.....	MP 032	Bhat, Vadiraja B.....	ThP 455	Blatnik, Matthew.....	TOB pm 02:30
Benter, Thorsten.....	TOF am 09:55	Bhatia, Mick.....	MP 562	Blease, Kate.....	MP 510
Benter, Thorsten.....	ThP 008	Bhatia, Mohit B.....	TP 560	Bleiholder, Christian.....	TP 077
Benton, Paul H.....	TP 176	Bhattacharya, Samit.....	WOB pm 03:10	Bleiholder, Christian.....	TP 081
Bentzley, Catherine.....	WP 162	Bialk, Heidi M.....	TOG am 09:15	Blindauer, Claudia A.....	MOG am 09:55
Benz, Christopher C.....	MP 404	Bianchi, Giancarlo.....	ThP 138	Blobel, Günter.....	MP 441
Bereman, Michael S.....	MP 085	BICH, Claudia.....	MP 555	Block, Karen.....	TOF pm 03:50
Bereman, Michael S.....	MP 016	Bienstock, Rachelle.....	TP 358	Block, Robert C.....	ThP 307
Beresford, Geoff.....	WP 232	Bienvenu, Frederic.....	WP 528	Blodgett, Jason.....	ThP 202
Bereszczak, Jessica.....	WP 267	Bier, Mark E.....	TP 112	Blodgett, Joshua A.....	WP 394
Bereszczak, Jessica Z.....	MP 547	Bier, Mark E.....	MP 080	Blonder, Josip.....	TP 158
Berg, Christian B.....	WP 131	Bierbaum, Veronica M.....	WP 123	Blonder, Josip.....	MP 469
Berg, Christian B.....	ThP 023	Bigbee, William L.....	ThP 461	Blueggel, Martin.....	ThP 273
Bergen III, H. Robert.....	TP 148	Bigbee, William L.....	WP 491	Blüggel, Martin.....	TP 502
Bergen, III, H. Robert.....	ThP 541	Bigwarfe Jr., Paul M.....	TP 256	Blüggel, Martin.....	WP 555
Berger, Chrystal.....	MP 404	Bika, Anil.....	MP 137	Blunk, Dirk.....	MP 117
Berger, Scott J.....	TP 475	Bilkova, Zuzana.....	TP 372	Blyn, Larry.....	ThOB am 09:35
Bergeron, Annik.....	TP 239	Bilkova, Zuzana.....	TP 504	Boateng, Joshua.....	ThP 259
Bergeron, Annik.....	TP 241	Bilodeau, Louis.....	WP 397	Boateng, Kwami.....	MP 239
Bergeron, Annik.....	WP 248	Bilsborough, Shaun.....	TOD pm 03:50	Bodenmiller, Bernd.....	MP 387
Bergeron, Annik.....	WP 256	Bindschedler, Laurence V.....	ThP 117	Bodenmiller, Bernd.....	ThOA pm 04:10

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Bodenmiller, Bernd	WP 281	Borchers, Christoph H.	WP 490	Brand, Sven	TP 449
Bodi, Kip L.	ThP 271	Borchers, Christoph H.	WP 373	Brand, Tony	MP 326
Boehm, Guenter	ThP 289	Borchers, Christoph H.	WP 072	Brandt, Sabine	WP 535
Boehm, Günther	WP 294	Borchers, Cristoph	WP 471	Brault, Melanie	MP 563
Boeri Erba, Elisabetta	WP 157	Borges, Chad R.	WP 235	Breci, Linda	ThP 062
Boeri Erba, Elisabetta	WP 154	Borhan, Babak	MP 284	Breci, Linda	ThOG pm 03:10
Boerma, LeeAnn J.	WP 479	Bori, Ibrahim D.	ThP 481	Bredberg, Anna	TP 540
Boernsen, Olaf	WP 376	Borisov, Oleg	TP 267	Breitbart, Mya	TP 531
Boersema, Paul J.	MOB am 10:15	Borton, Christopher	ThP 375	Brekenfeld, Andreas	WP 085
Boesche, Markus	MOA am 10:35	Borton, Christopher	WP 253	Brekenfeld, Andreas	MOF pm 03:50
Bogan, Michael	ThP 155	Borton, Christopher	WP 329	Brenna, J. Thomas	ThP 247
Bogan, Michael J.	ThOE am 09:35	Borton, Christopher	ThP 130	Brenna, J. Thomas	WP 417
Bogan, Mike	MOE am 10:15	Borum, Peggy R.	TP 216	Brenna, J. Thomas	ThP 307
Bogdanov, Mikhail B.	MP 297	Boschek, Curt B.	ThOE pm 03:30	Brenna, J. Thomas	ThP 229
Bogdanova, Alla	MP 397	Boschetti, Egisto	TP 437	Brennan, James S.	WP 150
Bogoev, Rumen	ThP 464	Bose, Shambhunath	MP 216	Brennan, Paul M.	WP 260
Bogyo, Matthew	ThP 476	Bossée, Anne	ThP 370	Brennen, Reid	WP 518
Bohlje, Martina	WP 187	Botelho, Julianne M. Cook	ThP 387	Brennen, Reid A.	TP 135
Bohlmann, Joerg	WP 471	Botitsi, Eleni	TP 090	Brenner, Dean E.	ThP 389
Bohme, Diethard K.	MOG am 09:15	Bouchard, Annie	MP 563	Brenton, Gareth	MP 296
Bohme, Diethard K.	WP 116	Bouchard, Yanick	WP 248	Brereton, Richard G.	MP 309
Bohme, Diethard K.	TP 068	Bouchard, Yanick	WP 256	Bresciano, Karen R.	MP 266
Bohme, Diethard K.	MP 039	Boucher, Ilene	ThP 035	Bressollier, Philippe	WP 431
Bohme, Diethard K.	TP 064	Boughtflower, Bob	MP 030	Breuker, Kathrin	WOA am 08:15
Bohme, Diethard K.	MP 114	Boughtflower, Robert	ThP 355	Breuker, Kathrin	MP 483
Bohme, Diethard Kurt	ThP 063	Boulos, Marguerite	MP 563	Breuker, Kathrin	MP 567
Bohon, Jen	MP 477	Boulyga, Sergei	WOG pm 02:30	Brier, Sebastien	TP 345
Bohrer, Brian	WP 101	Bousquet-Dubouch, Marie-Pierre	WP 501	Briese, Thomas	MP 326
Bohrer, Brian C.	WP 100	Boutin, Michel	MP 524	Briggs, Robert	ThP 373
Boisson, Jean-Charles	MP 172	Bovet, Cédric	ThOG am 09:55	Briggs, Steve	WP 283
Bojja, Sharath	TP 246	Bovet, Cédric	ThOC am 09:15	Brinckerhoff, William	WOF am 09:15
Bolca, Selin	WP 387	Bowden, John A.	ThP 230	Brinson, Robert	WP 163
Boldin, Ivan A.	MP 419	Bowen, Kit	MP 022	Briscoe, Andrew	TP 488
Bolgar, Mark S.	ThP 365	Bower, Christopher A.	WOF am 09:35	Briscoe, Chad	MP 275
Bolton, Judy L.	WP 407	Bowers, Jeremiah	TP 061	Briscoe, Chad	TP 242
Bolton, Judy L.	WP 344	Bowers, Michael T.	TOD am 08:15	Briscoe, Matthew	TP 026
Bomser, Joshua A.	WP 375	Bowers, Michael T.	ThOE am 08:15	Bristow, Anthony W.T.	ThOE am 08:55
Bonala, Radha	MP 346	Bowersock, Greg	WP 479	Brittnacher, Mitchell	WOD pm 04:10
Bonaldi, Tiziana	TP 309	Bowles, Dianna	WP 405	Britton, David J.	MP 404
Bond, Phil L.	WP 425	Bowling, Francis G.	TP 549	Broadhead, Richard	MOA am 10:55
Bondarenko, Pavel V.	TP 273	Bowman, Michael	WP 292	Brochu, Denis	WP 291
Bondarenko, Pavel V.	TP 431	Bowman, Michael J.	ThP 282	Brock, Ansgar	MP 551
Bondarenko, Pavel V.	WOA am 09:35	Bowman, Mike J.	ThP 283	Brock, Ansgar	TP 410
Bondarenko, Pavel V.	TP 332	Boyd, Jessica	TP 097	Brock, Jonathan	TP 491
Bondarenko, Pavel V.	ThP 388	Boyd, Jonathan W.	ThP 144	Brock, Jonathan W. C.	TP 281
Bondarenko, Pavel V.	TP 408	Boyer, Anne E.	MP 198	Brock, Melissa	TP 326
Bonelli, Fabio	MP 243	Boyer, Anne E.	MOA am 10:15	Brockmann, Klaus J.	MP 032
Bonenfant, Debora	ThP 084	Boyes, Barry	ThP 386	Brockmann, Klaus J.	ThP 008
Bongarzone2*, Ernesto R.	MP 271	Boyle, Nicole	ThP 530	Brockmann, Klaus J.	TOF am 09:55
Bonilla, Leo	TP 489	Boyne II, Michael T.	ThOF am 09:55	Broadbelt, Jennifer	TP 191
Bonilla, Leo E.	WP 553	Boyne II, Michael T.	WP 400	Broadbelt, Jennifer	TP 080
Bonn, Guenther	WP 368	Boyne II, Michael T.	MP 559	Broadbelt, Jennifer	TOC am 08:15
Bonn, Günther	WP 041	Boys, Brian L.	MOE pm 04:50	Broadbelt, Jennifer	WP 443
Bonneil, Eric	MP 377	Boysen, Gunnar	MP 347	Broadbelt, Jennifer S.	WP 388
Bonneil, Eric	TP 322	Bradley, Troy	WP 256	Broadbelt, Jennifer S.	TP 221
Bonneil, Eric	ThOF pm 04:10	Bradley, Troy	WP 558	Broadbelt, Jennifer S.	ThP 078
Bonner, Eric R.	TP 367	Bradley, Troy	ThP 361	Broadbelt, Jennifer S.	WP 447
Bonner, Philip L.R.	MP 168	Bradley, Troy	TP 241	Broadbelt, Jennifer S.	WP 440
Bonner, Ron	ThP 170	Bradley, Troy	TP 239	Broadbelt, Jennifer S.	WP 449
Bonner, Ron	WP 284	Bradley, Troy	WP 248	Broderick, David	MP 481
Boock, Jared J.	WP 233	Bradley, Troy	MP 169	Broderick, David J.	ThP 223
Boontheuang, Pinmanee	WP 487	Bradley, Troy	MP 308	Broersen, Alexander	WP 073
Boontheuang, Pinmanee	WP 523	Brahmbhatt, Viral V	ThP 242	Brosch, Markus	MP 174
Boonthueng, Pinmanee	ThP 398	Bramwell-German, Claire J.	MP 280	Broshears, William C.	TP 415
Boonthueng, Pinmanee	MP 515	Brancia, Francesco	WP 267	Brosius, Frank	WP 357
Booth, Matthew M.	MP 230	Brancia, Francesco L.	WP 029	Brosnan-Cook, Michelle	WP 333
Borchers, Christoph H.	ThP 513	Brancia, Francesco L.	MP 547	Brosnan-Cook, Michelle	ThP 198
Borchers, Christoph H.	MOB pm 03:50	Brand, DJ	WP 324	Brough, Ryan	WP 327
Borchers, Christoph H.	ThP 503	Brand, Erin	TP 441	Brouillette, Christie	WOC pm 03:30
Borchers, Christoph H.	TOA pm 02:30	Brand, Korbinian	MP 354	Brown, Alex	TP 218

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Brown, Ashli E.	ThP 169	Bunger, Maureen K.	WP 522	Cai, Sheng-Suan	ThP 024
Brown, H. Alex	ThP 105	Bunikis, Jonas	WP 239	Cai, Yang	MP 325
Brown, Kristy	MP 428	Bunk, David	ThP 393	Cai, Yang	WOE am 09:15
Brown, Pamela	ThP 259	Bunk, David M.	ThP 499	Cajina, Manuel	WP 190
Brown, Tashalee R.	MP 540	Burd, Berta	ThP 522	Cajina, Manuel	WP 321
Brown, Weston	MP 261	Burden, Steve	MP 545	Calamini, Barbara	WP 407
Browning, Karen R.	MP 529	Bur�, Corinne	TP 400	Calcutt, M. Wade	MP 314
Bruce, James	MP 071	Burgers, Peter	WP 486	Calderon, Angela	WOE am 09:55
Bruce, James E.	MP 560	Burgers, Peter C.	TP 484	Caldwell, Jeff	MP 030
Bruce, James E.	ThP 484	Burgers, Peter C.	ThOB am 08:55	Caldwell, Jeffrey	ThP 355
Bruce, James E.	TP 397	Burgess, Michael	MP 522	Caldwell Busby, Jennifer	ThOA pm 03:30
Bruce, James E.	ThP 474	Burgess, Michael	TOB pm 03:10	Caldwell Busby, Jennifer	TP 320
Bruce, James E.	MOB pm 05:10	Burke, Amy	TP 451	Callahan, John H.	MP 315
Bruce, Kevin E.	MP 309	Burke, John	TP 364	Callahan, John H.	TP 578
Bruckner, James V.	WP 560	Burkhalter, Rob.	WP 004	Callahan, John H.	TOA am 08:35
Bruening, Merlin L.	ThP 038	Burkhardt, Mark R.	ThP 231	Callahan, John H.	TP 361
Bruenner, Bernd	ThP 371	Burleigh, James	ThP 099	Callahan, John H.	TP 568
Bruenner, Bernd	WP 185	Burlet-Schiltz, Odile	WP 501	Callery, Patrick S.	WP 230
Bruggink, C.	TP 204	Burlingame, A. L.	MP 189	Callister, Stephen J.	WP 360
Bruneel, Arnaud	ThP 544	Burlingame, Al	TP 150	Calverley, Richard	ThP 210
Brunelle, Alain	ThP 101	Burlingame, Al	MP 448	Calverley, Richard	ThP 189
Brunelle, Alain	TOC pm 03:30	Burlingame, Alma	ThP 256	Calverley, Richard	ThP 201
Bruning, John B.	WOC pm 02:30	Burlingame, Alma L.	MP 181	Calza, Paola	TP 145
Brunner, Achim	TP 324	Burlingame, Alma L.	TP 311	Camara, Johanna E.	ThP 499
Brunner, Achim	TP 318	Burnett, Donald	WOG pm 03:10	Camart, Jean-Christophe	WP 066
Bruno, Richard S.	ThP 314	Burnett, Jr., John C.	TOA pm 03:30	Cambell, Robert	TP 225
Bruns, Kerry	WP 449	Burnette, Elizabeth B.	ThP 482	Camp, David G.	TP 534
Brus, Theodore S.	MP 167	Burns, Colin S.	WP 149	Camp, Sara M.	ThP 441
Brusniak, Mi-Youn	WP 493	Burns, Richard S.	WP 048	Camp II, David G.	TP 518
Brusniak, Mi-Youn	ThOA pm 04:10	Burnum, Kristen	MP 535	Camp, II, David G.	WP 533
Brusniak, Mi-youn	TP 169	Burnum, Kristin E.	TP 295	Campbell, Dale A.	ThP 302
Brustkern, Adam M.	MP 064	Burrell, Michael	WP 074	Campbell, David	TP 169
Brustkern, Adam M.	MP 056	Burton, Lyle	WP 354	Campbell, David	WP 493
Bryan, Nathan S.	ThP 528	Burton, Lyle	ThP 171	Campbell, J. Larry	WP 518
Bryant, Stephen H.	TP 153	Burton, Lyle	WP 284	Campbell, J. Larry	MP 562
Bryant, Stephen H.	TP 161	Busby, Scott A.	ThOA pm 03:30	Campbell, Jennifer	WP 361
Bryskiewicz, Tadeusz	TP 338	Busby, Scott A.	WP 262	Campbell, Karinna	TP 070
Bu, Wei	WP 335	Busby, Scott A.	TP 329	Campuzano, Iain	ThP 070
Buchanan, Michelle V.	WP 428	Busby, Scott A.	WOC pm 02:30	Campuzano, Iain	TP 041
Buchanan-Smith, Annabelle	WOG am 08:35	Busby, Scott A.	TP 320	Campuzano, Iain	TOD am 09:55
Buchholz, Lisa M.	MP 303	Busch, Michelle	TP 423	Campuzano, Iain	WOC am 08:35
Buchmeiser, Michael R.	WP 195	Buse, Maria G.	TP 396	Campuzano, Iain D G.	TOD am 08:35
Buck, Charles	TP 323	Bush, Matthew F.	ThOG pm 03:50	Campuzano, Iain	ThP 285
Buck, Charles	ThP 459	Bushey, Jared	ThOF am 08:55	Campuzano, Ian	ThP 284
Buck, Charles	TP 171	Buskirk, Amanda D.	WP 433	Canales, Benjamin K.	TP 554
Buck, Charles	ThP 173	Busman, Mark	ThP 316	Canals, Francesc	WP 543
Buck, Robert C.	ThP 133	Bustamante, Liliana	TP 443	Cancilla, Mark T	ThP 419
Buckel, Scott	TP 195	Butler, Brittany	TP 370	Cannon, William R.	WP 428
Buda, Razvan Aurel	WP 215	Butler, Jon P.	TOA am 08:15	Canterbury, Jesse	WP 269
Budac, David P.	ThP 071	Buur Rasmussen, Birgitte	MP 416	Canterbury, Jesse	TP 506
Budac, David P.	ThP 219	Byers, Christopher	MP 351	Cantley, Lewis C.	MP 179
Budac, David P.	MP 407	Byrd, Gary D.	WP 557	Cantley, Lewis C.	TP 310
Budde, William L.	MOC pm 05:10	Byrd, Gary D.	ThP 310	Cao, Haiming	WP 507
Budimir, Natali	ThOE am 08:55	Byrd, James	ThP 188	Cao, Hongmei	MP 271
Budin, Kenneth	TP 170	Byrd, John C.	TP 268	Cao, Huachuan	WP 446
Budman, Lorne	WP 489	Byrd, Nick	WP 191	Cao, Huachuan	TOC am 08:55
Budman, Lorne	ThP 531	Byrne, Michael	WP 170	Cao, Jerry	ThP 295
Budnik, Bogdan	TP 488	Byrne, Robert H.	TP 038	Cao, Jin	ThP 299
Bui, H.	ThP 103	Bythell, Benjamin	TP 089	Cao, Lulu	TP 519
Bui, Huy	WP 062	Bythell, Benjamin J.	MP 078	Capasso, Antonio	TP 345
Buko, Alex	ThP 288	Byun, Jaeman	ThP 318	Capasso, Clemente	TP 345
Bumpus, Stefanie B.	WP 400	Byun, Jaeman	WP 357	Capka, Vladimir	MP 311
Bunai, Christine	TP 168	Byun, Kyung Hee	MP 541	Capka, Vladimir	ThP 358
Bunai, Christine L.	WP 268	Cabecinha, Ashley	WP 072	Caprioli, Richard M.	WP 071
Bunch, Josephine	ThP 102	Cadene, Martine	TP 400	Caprioli, Richard M.	TP 447
Bunch, Josephine	ThP 098	Cadet, Jean Lud	ThP 530	Caprioli, Richard M.	TP 295
Bundy, Jonathan L.	MP 582	Cahoon, Ed	WP 364	Caprioli, Richard M.	MP 452
Bundy, Jonathan L.	TOB am 09:15	Cahoon, Rebecca E.	TP 367	Caprioli, Richard M.	TP 442
Bunger, Maureen K.	MP 582	Cai, Sheng-Suan	MP 153	Caprioli, Richard M.	ThP 105
Bunger, Maureen K.	TOB am 09:15	Cai, Sheng-Suan	ThP 150	Caprioli, Richard M.	WP 056

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Caprioli, Richard M.	WP 053	Castro-Perez, Jose	WOB pm 03:30	Chance, Mark	TP 347
Caprioli, Richard M.	TOC pm 02:30	Castro-Perez, Jose	WOD am 09:35	Chance, Mark R.	TP 348
Caprioli, Richard M.	TP 293	Castro-Perez, Jose M	MP 251	Chance, Mark R.	MP 506
Caprioli, Richard M.	WP 485	Castro-Perez, Jose M	WP 392	Chandramouli, Nagarajan	ThP 477
Caprioli, Richard M.	ThOE am 09:15	Catalina, M. Isabel	TP 283	Chandrasena, Gamini	WP 321
Caprioli, Richard M.	TP 289	Cataliotti, Alessandro	TOA pm 03:30	Chandrasena, Gamini	WP 190
Caprioli, Richard M.	TP 288	Caufield, William V.	ThP 320	Chang, Cheng-Chin	WP 332
Caprioli, Richard M.	TP 453	Cavett, Valerie	ThOA pm 03:30	Chang, Chia-ming	MP 454
Caprioli, Richard M.	MP 535	Cavett, Valerie	TP 320	Chang, Chia-Wei	WP 479
Caprioli, Richard M.	WP 052	Cazares, L. H.	MP 183	Chang, Huan-cheng	ThP 048
Caprioli, Richard M.	WP 057	Cazares, Lisa H.	MOF am 10:15	Chang, Hui-Erh	WP 332
Caprioli, Richard M.	MOF am 09:15	Cazares, Lisa H.	WP 268	Chang, Ming-Fong	WP 465
Caprioli, Richard M.	TP 572	Cazares, Lisa H.	MP 586	Chang-Wong, Tony	WP 547
Caprioli, Richard M.	WP 054	Cazares, Lisa H.	WP 259	Chao, Moses V.	MP 569
Carado, Tony	ThP 098	Cazenave-gassiot, Amaury	ThP 355	Chapdelaine, John	WP 171
Carapito, Christine	WP 504	Ceaillies, Caroline	TP 218	Chapman, Dr. James	TP 101
Carapito, Christine	TP 494	Ceglarek, Uta	TP 184	Chappa, Arvind	MP 412
Cardasis, Helene L.	MP 569	Ceglarek, Uta	TP 439	Chappell, Derek L.	WP 308
Cardasis, Helene L.	MP 545	Cen, Ed	ThP 339	Chappell, Ian	TP 495
Carella, Yvonne	TP 397	Cerutti, Soledad	TP 216	Chappell, William	TP 032
Cargile, Benjamin J.	TOB am 09:15	Cha, Sangwon	TOC pm 03:10	Chappell, William J.	WP 093
Cargile, Benjamin J.	WP 522	Cha, Sangwon	WP 077	Charlebois, Jay	TP 426
Carginale, Vincenzo	TP 345	Chaber, John J.	WP 189	Charles, Laurence	MP 093
Cariello, Neal	ThP 470	Chabot, Josee	MP 239	Charles, Laurence	MP 028
Carlis, John V.	WOA pm 02:30	Chace, Donald H.	WP 319	Chattopadhyay, Rima	MP 496
Carlis, John V.	ThOB am 08:35	Chace, Donald H.	Special Poster	Chaudhary, A.	WOF am 09:55
Carlos, Afonso	WP 164	Chace, Donald H.	ThOC pm 04:10	Chaurand, Pierre	WP 071
Carlson, James E.	WP 466	Chace, Donald H.	WP 312	Chaurand, Pierre	TP 293
Carlson, Robert M.K.	MP 134	Chadwick, Lucas R.	WP 407	Chaurand, Pierre	WP 054
Carlson, Roland P.	TP 141	Chadwick, M. Ashley	MP 062	Chauvet, Alexis	TP 165
Carmona, C.	MP 502	Chaer-Nascimento, M.	TP 045	Chauvet, Alexis	ThP 222
Carolan, Vikki	TP 287	Chaicharoen, Kittisak	MOG pm 04:50	Chavez, Alexander	TP 362
Carpenter, Lucy J.	TP 138	Chaicharoen, Kittisak	TP 115	Chavez, Juan	ThOE pm 03:50
Carpinelli, Patrizia	ThP 432	Chait, Brian T.	MP 574	Chavez, Juan	MP 411
Carr, Steven A.	TOA am 09:55	Chait, Brian T.	MP 441	Che, Fayun	ThP 522
Carr, Steven A.	TOB pm 03:10	Chakel, John	TP 170	Che, Fayun	TP 537
Carr, Steven A.	WOD am 08:15	Chakraborty, Asish	MP 499	Che, Fa-Yun	TP 156
Carr, Steven A.	MOB am 09:35	Chalkley, Robert	TP 150	Chelius, Dirk	WOA am 09:35
Carr, Steven A.	MP 522	Chalkley, Robert	ThP 256	Chen, Anshu	TP 445
Carrier, Alain	MP 377	Chalkley, Robert J.	MP 181	Chen, Bonny	MP 510
Carrier, Alain	TP 105	Chalkley, Robert J.	MP 189	Chen, Cai	MP 463
Carroll, Christopher A.	TP 350	Challis, Gregory L.	WOE am 09:15	Chen, Chang-nan	MP 108
Carroll, James A.	TP 109	Chalmers, Michael J.	ThOA pm 03:30	Chen, Chia-Yang	TP 091
Carroll, Joe	MP 465	Chalmers, Michael J.	WOC pm 02:30	Chen, Ching-Yi	ThOD am 09:55
Carrozza, Michael J.	ThP 268	Chalmers, Michael J.	WP 262	Chen, Chun Jung	WP 201
Carswell, Hilary V.	TP 285	Chalmers, Michael J.	TP 329	Chen, Chung-Hsuan	TP 039
Carter, Spencer J.	ThP 358	Chambers, Matthew	MP 187	Chen, Chung-Hsuan	WOF pm 03:50
Carter, Spencer J.	MP 311	Champagne, Josee	ThP 217	Chen, Chung-Yu	MP 305
Caruso, Donatella	TP 509	Champion, Matthew	ThP 074	Chen, Ding-Shinn	TP 378
Caruso, Joseph	ThP 421	Chamrad, Daniel	WP 555	Chen, Dong	TP 467
Caruso, Joseph A.	ThP 149	Chamrad, Daniel C.	ThP 273	Chen, Edward C.	ThOC am 08:55
Caruso, Joseph A.	MOG am 10:35	Chan, Chang-Ching	ThP 365	Chen, Edward S.	ThOC am 08:55
Caruso, Joseph A.	TOG pm 02:50	Chan, Daniel W.	TP 459	Chen, Emily	WP 192
Carvalho, Valdemir M.	WP 304	Chan, Eric	WP 553	Chen, Fannie W.	WP 467
Casado, A.	MP 021	Chan, Eric Y.	WP 547	Chen, Fusheng	TP 463
Casado, Begona	ThP 274	Chan, Kenneth	TP 208	Chen, Guan-Yuan	ThP 433
Casas, Immaculada	MP 326	Chan, Kenneth K.	TP 251	Chen, Guodong	TP 259
Casetta, Bruno	ThOC pm 03:50	Chan, King	TP 533	Chen, Haijian	WP 259
Casetta, Bruno	MP 232	Chan, King	MP 469	Chen, Haijian	TP 168
Casetta, Bruno	WP 305	Chan, King C.	TOB pm 03:30	Chen, Haijian	WP 268
Cashman, Christopher R.	TP 087	Chan, Man KUAN	MP 532	Chen, Hao	WP 119
Cassity, Nancy	ThP 287	Chan, Shiu-Yung	TP 196	Chen, Hao	WP 010
Castanha, Elisangela R.	TP 450	Chan, Shiu-Yung	WOB am 08:55	Chen, Hao	WP 112
Castellana, Edward T.	WP 044	Chan, Sum	MP 358	Chen, Hsin-hung	ThOD am 09:55
Castellana, Edward T.	ThP 107	Chan, Tze-Ming	TP 263	Chen, Hsin-Wei	TP 550
Castellano, Ronald K.	WP 011	Chance, Deborah L.	WP 436	Chen, Hsin-Wei	TP 550
Castien, Rob	WP 249	Chance, Deborah L.	ThP 287	Chen, Jianzhong	TP 397
Castle, Sherry A.	WP 288	Chance, Mark	ThOE pm 02:30	Chen, Jie	WOB pm 03:10
Castleberry, Colette	WP 452	Chance, Mark	MP 477	Chen, Jie	WOD am 09:55
Castro, Azucena	MP 287	Chance, Mark	WOC pm 04:10		

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space



INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Chen, Jinwen	WP 245	Chen, Yu-Ju	WP 534	Christ, George	MP 506
Chen, Jinwen	WP 196	Chen, Yu-Luan	TP 254	Christians, Uwe	MP 345
Chen, Kan	WP 385	Chen, Yu-Luan	MP 235	Christians, Uwe	ThP 344
Chen, Kan	WOE am 09:15	Chen, YungHsiang	ThP 292	Christians, Uwe	MP 236
Chen, Lian-Chun	ThP 014	Cheng, Lei	WP 299	Christie, Andrew	TOE am 09:35
Chen, Liuxi	MP 503	cheng, Lei	MP 205	Christie, Andrew E.	MP 369
Chen, Mark M.	WP 296	Cheng, Michael T.	TOG am 08:55	Christofk, Heather R.	TP 310
Chen, Melissa	TP 486	Cheng, Shawn	TP 410	Chu, Caroline	MP 207
Chen, Qing-Rong	TP 300	Cheng, Sy-Chyi	TP 005	Chu, Caroline S.	ThOB am 08:15
Chen, Ray	MP 138	CHENG, XUN	MP 536	Chu, Feixia	TP 150
Chen, Ray	ThP 108	Chenier, Claude L.	ThP 152	Chu, Feixia	MP 448
Chen, Ruibing	WP 197	Chepanoske, Cindy L.	WP 547	Chu, Feixia	TP 311
Chen, Ruibing	MP 369	Cher, Michael	ThP 294	Chu, I.K.	MP 459
Chen, Ruibing	MP 365	Chernushevich, Igor	TOF am 09:35	Chu, Ivan	WOG am 09:55
Chen, Ruibing	TP 294	Chernushevich, Igor V.	TOF am 08:35	Chu, Ivan K.	WOE pm 03:30
Chen, Shizhong	WP 121	Chi, An	WOA am 09:15	Chu, Nancy	WP 340
Chen, Shu G.	MP 525	Chia, Jingyun	WP 315	Chueachavalit, Chawalee	MP 119
Chen, Shugui	MP 489	Chian, Huang-Wei	ThP 353	Chueachavalit, Chawalee	TP 088
Chen, Shu-Hua	ThP 041	Chiang, Chitung	WP 120	Chung, Bong Chul	ThP 322
Chen, Shu-hui	ThP 433	Chiang, Eddie T.	ThP 441	Chung, Jacqueline	ThP 531
Chen, Sophia	TP 486	Chiarelli, M. PAUL	ThP 333	Chung, Li-Wen	WP 243
Chen, Sung-fang	WP 465	Chiarito, Rudi	TP 148	Churchwell, Mona I.	ThP 294
Chen, Susan L.	TP 326	Chicz, Roman M.	MP 401	Cicero, Kathleen L.	MP 158
Chen, Victor J.	ThP 305	Chien, Allis S.	MP 445	Ciencialova, Alice	TP 541
Chen, Vincent C.	TP 517	Chien, Allis S.	ThP 311	Ciner, Frederic L.	TP 232
Chen, Weibin	MP 499	Chien, Benjamin	ThP 295	Cingolani, Gino	WP 142
Chen, Weibin	ThP 402	Chien, Benjamin	WP 178	Ciochina, Laurentiu	WP 171
Chen, Weiwu	MP 175	Chien, Chih-Wei	MP 430	Ciosto, Conny	TP 324
Chen, Weiwu	MP 171	Chien, Winnie	MP 107	Cipollo, John	MP 208
Chen, Wei-Yu	ThP 036	Chin, Wutharath	WP 432	Cipollo, John F.	WOB am 08:55
Chen, Wen	ThP 524	Chipuk, Joseph	WP 443	Cipollo, John F.	ThP 283
Chen, Xi	ThP 313	Chisholm, Kenneth	MP 552	Circello, Benjamin T.	WP 394
Chen, Xian	MP 335	Chmelik, Josef	TP 079	Cisar, John O.	WP 426
Chen, Xian	TP 412	Cho, Bongsup	ThP 333	Clark, Amy	ThOC am 08:15
Chen, Xian	WP 551	Cho, Je-Yoel	ThP 395	Clark, Amy J.	ThP 009
Chen, Xian	WP 554	Cho, Kathleen R.	ThP 457	Clark, Jay A.	WP 244
Chen, Xian	ThP 425	Cho, Kathleen R.	TP 503	Clark, T. Nicole	MP 310
Chen, Xian	TP 553	Cho, Kun	MP 541	Clarke, Nigel J.	WP 314
Chen, Xian	TP 567	Cho, Robert	ThP 194	Clarke, Steven	MP 456
Chen, Xian	TP 499	Cho, Robert	MP 280	Claude, Emmanuelle	ThP 070
Chen, Xiaodi	WP 488	Cho, Robert	MP 246	Claude, Emmanuelle	WP 069
Chen, Xiaohong	WP 169	Cho, Sool Yeon	TP 413	Clauser, Karl	ThP 087
Chen, Xuequn	MP 543	Cho, Sool Yeon	ThP 177	Clayton, Richard	MP 244
Chen, Ya-ken	TP 550	Chobelet, Anne	WP 431	Cleeve, Matthew	ThP 201
Chen, Yan	MP 246	Choe, Leila H.	TOA am 09:15	Cleeve, Matthew	ThP 210
Chen, Yan	ThP 292	Choi, Ha Young	MP 216	Cleeve, Matthew	ThP 189
Chen, Yanfang	WP 058	Choi, H-Yoon	TP 478	Clelland Vann, Brandi	WP 240
Chen, Yet-ran	TP 520	Choi, Hyun-Soo	ThP 523	Clemens, Matthew	TP 262
Chen, Yet-Ran	WP 534	Choi, Hyun-Soo	MP 519	Clements, Mary Ann	MOF am 10:15
Chen, Yet-Ran	TP 316	Choi, Man-Ho	ThP 322	Clements, Melisa	MOD pm 04:30
Chen, Yet-Ran	MP 430	Choi, Man-Ho	ThP 374	Clemmer, David	WP 101
Chen, Yi-Ju	WP 476	Choi, Myoung Choul	MP 051	Clemmer, David	ThP 286
Chen, Yi-Ju	WP 482	Choi, Myoung-choul	MP 061	Clemmer, David E.	MOG pm 04:30
Chen, Yi-Ting	WP 465	Choi, Yong Seok	ThP 436	Clemmer, David E.	TP 462
Chen, Yu	WP 124	Choi, Yong Seok	MP 424	Clemmer, David E.	WP 100
Chen, Yuan-shek	ThP 295	Choi, Yong-Seok	WOE am 08:35	Clemmer, David E.	TP 317
Chen, Yuan-Shek	WP 178	Choi, Yongsoo	MP 455	Clemmer, David E.	TP 044
Chen, Yu-Chie	ThP 036	Chornoguz, Olesya	WP 477	Clemmer, David E.	TP 434
Chen, Yu-Chin	MP 357	Chou, Bilin	WP 327	Clemmer, David E.	ThOF pm 02:50
Chen, Yue	ThP 490	Chou, Chi-Chi	TP 517	Clemmer, David E.	ThP 278
Chen, Yue	MP 391	Chou, Lan-Szu	TP 467	Clemmer, David E.	TP 043
Chen, Yue	MP 462	Chou, Wayne	TP 532	Clemmer, David E.	WP 159
Chen, Yu-Ju	WP 476	Choudhary, Jyoti S.	WP 526	Clemmer, David E.	WP 300
Chen, Yu-Ju	WP 482	Choudhary, Jyoti S.	MP 174	Clench, Malcolm R.	TP 287
Chen, Yu-Ju	ThP 041	Chow, Lien	ThP 124	Clench, Malcolm R.	ThP 097
Chen, Yu-Ju	TP 520	Chow, Lu-Ping	ThOD am 09:55	Clench, Malcolm R.	WP 074
Chen, Yu-Ju	ThP 042	Chow, Marjorie	ThP 530	Clench, Malcolm R.	MP 343
Chen, Yu-Ju	MP 430	Chowdhury, Swapan K.	WP 326	Clerens, Stefan	ThP 111
Chen, Yu-Ju	TP 507	Chowdhury, Swapan K.	WOB pm 02:30	Cleveland AMD Study Group	MP 521
Chen, Yu-Ju	TP 316	Chrastina, Adrian	MP 470	Cliby, William A.	TP 373

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Cliffel, David E	TP 119	Conrad, Abigail H	TP 197	Cornish, Timothy J	WP 021
Clifton, Matthew S	WP 208	Conrad, Charles	WP 497	Corr, Jay	ThP 214
Clough, Geraldine	TP 569	Conrad, Gary W	TP 197	Corr, Jay	TP 224
Clough, Geraldine	MP 587	Conrads, Thomas P	ThP 461	Corr, Jay	TP 227
Clouse, Steven D	MP 556	Conrads, Thomas P	TOB pm 02:50	Corr, Jay	MOD am 09:55
Clowers, Brian H	MP 188	Conrads, Thomas P	MP 422	Corso, Gaetano	WP 008
Clowers, Brian H	TP 055	Consentino, Louis M	ThP 466	Corso, Thomas N	ThP 216
Clowers, Brian H	MP 203	Constantin, Olivier	ThP 184	Cortez, Czarina	MP 269
Clowers, Brian H	WOE pm 02:50	Constantinides, Constantinos A	WP 483	Cortez, Czarina	ThOC pm 03:30
Coba, Marcelo P	WP 526	Contado-Miller, May Joy	WP 295	Corthals, Garry	TP 526
Cobb, Jennifer S	MP 577	Contag, Christopher H	ThP 311	Corthals, Garry L	TP 524
Cobb, Jennifer S	ThP 023	Contreras, Cesar	MP 192	Cosenza, Stephen	TP 413
Cobb, Stuart R	TP 285	Contreras, Jesse A	WOF am 08:55	Costa, Anthony B	TOF pm 03:30
Cobbold, Mark	MP 340	Cook, Kelsey	MP 033	Costantino, Nina	MP 463
Cochran, Susan M	TP 285	Cook, Kelsey	TP 118	Costa-Vera, Cesar	MP 086
Cociorva, Daniel	TP 163	Cook, Kelsey	ThP 533	Costello, Catherine	TP 196
Cociorva, Daniel	TP 160	Cooke, William	TP 168	Costello, Catherine	TP 177
Cociorva, Daniel	MOA pm 04:10	Cooke, William E	WP 259	Costello, Catherine	ThP 526
Cociorva, Daniel	WP 192	Cooke, William E	MP 183	Costello, Catherine	MP 208
Cociorva, Daniel	TOB am 08:35	Cooke, William E	WP 268	Costello, Catherine E	ThP 271
Cody, Robert B	MP 014	Cooks, R Graham	WP 012	Costello, Catherine E	TP 407
Cody, Robert B	MP 007	Cooks, R Graham	WP 024	Costello, Catherine E	WP 410
Cody, Robert B	TOF pm 02:30	Cooks, R Graham	TP 032	Costello, Catherine E	ThP 528
Coe, Roger	TP 238	Cooks, R Graham	WP 075	Costello, Catherine E	TOE am 09:15
Coe, Roger	TP 240	Cooks, R. G	MP 012	Costello, Catherine E	MP 180
Cohen, Isaac	MP 236	Cooks, R. Graham	WP 083	Costello, Catherine E	ThP 035
Cohen, Isaac	ThP 344	Cooks, R. Graham	TP 040	Costello, Catherine E	MP 475
Cohen, Lucinda	TP 142	Cooks, R. Graham	TOF pm 03:30	Costello, Catherine E	ThP 282
Cohen, Lucinda H	MP 303	Cooks, R. Graham	WP 093	Costello, Catherine E	ThP 283
Cohen, Richard A	TP 406	Cooks, R. Graham	WP 035	Costello, Catherine E	MP 297
Cohen, Steven L	WP 043	Cooks, R. Graham	WP 112	Costello, Catherine E	WP 496
Cohen, Steven L	WP 047	Cooks, R. Graham	WP 016	Costello, Catherine E	TP 406
Colangelo, Christopher M	MP 396	Cooks, R. Graham	TP 037	Costello, Catherine E	WP 289
Cole, Douglas L	MP 536	Cooks, R. Graham	WP 010	Costello, Catherine E	TP 154
Cole, Richard B	WP 031	Cooks, R. Graham	WP 224	Costello, Catherine E	WOB am 08:55
Cole, Richard B	WP 385	Cooks, R. Graham	ThP 148	Cote, Linda	MP 345
Cole, Richard B	TP 199	Cooks, R. Graham	WP 006	Côté, Cynthia	ThP 361
Cole, Richard B	MP 325	Cooks, R. Graham	MP 115	Côté, Cynthia S	MP 169
Cole, Richard B	WOE am 09:15	Cooks, R. Graham	WP 119	Côté, Cynthia S	WP 558
Cole, Richard B	ThP 061	Cooks, R. Graham	WOF am 08:15	Cotter, Robert	MP 583
Cole, Robert	MP 540	Cooks, R. Graham	WP 159	Cotter, Robert J	ThP 225
Colgrave, Michelle L	TP 549	Cooks, R. Graham	ThP 099	Cotter, Robert J	ThP 485
Coller, Hilary	MP 281	Cooks, R. Graham	TOC pm 04:10	Cotter, Robert J	MP 364
Collier, Timothy S	TP 579	Cooks, R. Graham	MP 049	Cotter, Robert J	TP 282
Collin, Ian P	TP 258	Cooks, R. Graham	WP 227	Cotter, Robert J	WOF am 09:15
Collin, Olivier L	MOF pm 04:10	Cooks, R. Graham	TP 030	Cotter, Robert J	MP 409
Collin, Olivier L	ThP 049	Cooks, R. Graham	WP 013	Cotte-Rodriguez, Ismael	TOC pm 04:10
Collinet, Pierre	TP 299	Cooley, Gretchen M	ThP 258	Coulombe, Benoit	MP 563
Collings, Bruce	WP 096	Coon, Joshua J	MP 126	Coulombe, Benoit	ThP 217
Collin-Hansen, Christian	MP 396	Coon, Joshua J	MOA am 09:15	Coulombe, Nathalie	TP 189
Collins, Elizabeth J	TP 190	Coon, Joshua J	TOB am 09:55	Courcelles, Mathieu	ThOA pm 02:50
Collins, Leonard B	MP 347	Coon, Joshua J	MP 508	Courchesne, Paul	WP 361
Collins, Mark O	WP 526	Coon, Joshua J	MOF pm 04:50	Cournoyer, Jason	TP 196
Cologna, Stephanie M	MP 503	Coon, Joshua J	MP 132	Cournoyer, Jason J	MP 104
Cologna, Stephanie M	TP 477	Coon, Joshua J	MP 124	Cournoyer, Jason J	MP 127
Colombo, Riccardo	ThP 432	Cooney, Charles L	WP 437	Cournoyer, Jason J	WP 462
Colomé, Nuria	WP 543	Cooney, Janine M	MP 504	Court, Donald L	MP 463
Colzani, Mara	ThP 512	Cooper, Bret	ThOB pm 03:10	Cousins, Lisa	MP 552
Combariza, Marianny Y	TP 574	Cooper, Bruce R	WP 375	Cousins, Lisa	MP 038
Combs, Laura	WP 139	Cooper, Thomas	TP 263	Cousins, Lisa M	TP 019
Comeaux, Lindsay M	ThP 311	Cooper, Travis	TP 081	Coutu, Michel	WP 171
Comins, Daniel L	ThP 481	Cooper, Travis J	TP 074	Couture, Jean	MP 255
Commandeur, J.N.M	WP 346	Copeland, Marci	TP 548	Couvet, Morgane	TP 147
Compton, Keith	WP 069	Corbo, Julie A	MP 401	Covey, Thomas	WP 354
Comte-Walters, Susana	TP 448	Cornelissen, Cynthia N	WP 464	Covey, Thomas R	ThP 012
Cong, Xin	ThP 502	Cornelius, Uboh	WP 337	Covey, Thomas R	TP 017
Conner, Laura	WP 231	Cornett, Dale S	WP 056	Covey, Thomas R	WP 015
Connor, Chris	MP 269	Cornish, Timothy J	ThP 489	Covey, Thomas R	ThP 074
Connors, Lawreen H	TP 407	Cornish, Timothy J	ThP 156	Cowen, Simon	TP 173
Connors, Lawreen H	MP 475	Cornish, Timothy J	ThP 144	COX, DAVID	MP 501

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Cox, David	WP 475	Cui, Xiaoming	ThP 096	Daniels, Scott	ThOC pm 03:50
Cox, David M.	ThP 404	Cui, Xi-Lin	MP 259	Daniels, Scott	WP 361
Cox, Frederick J.	ThP 151	Culard, Françoise	TP 400	Daniels, Scott B.	WP 305
Cox, Juergen	ThOB pm 04:10	Culbertson, Adam	TP 043	Danielson, Steven R.	TP 513
Cox, Jürgen	ThOA am 09:55	Cummings, Margie	MP 352	Danielson, William	TP 055
Cox, Jürgen	ThP 408	Cummins, Len L.	ThP 335	Danis, Chad	MP 553
Cox, Jürgen	TP 309	Cunningham, Mark	TP 419	Dankberg, Jane	TP 408
Coxhead, Richard	ThP 355	Cunningham, Mark	TP 399	Danzer, Carsten	WOD pm 03:30
Coxhead, Richard	MP 030	Currie, Patrick	TP 228	D'Apolito, Oceania	WP 008
Coy, Stephen	WP 108	Curtis-Jackson, Phillippa	MP 244	Darfler, Marlene	ThP 470
Coy, Stephen L.	WP 105	Cusack, Bernadette	WP 251	Darfler, Marlene M.	ThP 511
Coy, Stephen L.	ThOF pm 03:30	Cusack, Michael P.	MP 404	Darie, Costel C.	ThP 524
Coyle, Amy	WP 239	Cutler, Jim E.	MP 325	Darling, Lindsay, E.	TP 544
Crabb, John S.	MP 193	Cvacka, Josef	TP 541	Darrow, Ruth M.	MP 549
Crabb, John S.	MP 521	Cvacka, Josef	ThP 319	Darville, Lancia N.F.	TP 319
Crabb, John S.	MP 530	Cvacka, Josef	MP 148	Dasari, Surendra	TP 271
Crabb, John S.	MP 531	Cyr, Terry	TP 352	d'Ascenzo, Mark	TOA am 09:15
Crabb, John S.	TP 562	Cyr, Terry D.	TP 559	Dashtiev, Maxim	WP 023
Crabb, John W.	MP 193	Cyrille, Marco	WOD am 08:15	Dasic, Andrea	WP 116
Crabb, John W.	MP 521	Czajkowski, Stefan	MP 354	Dass, Chhabil	MP 495
Crabb, John W.	MP 530	Czerwiec, Gregg	WP 467	Dass, Chhabil	MP 488
Crabb, John W.	TP 562	Czok, Ulrich	TOF am 08:55	Datsenko, Kirill	WP 016
Crabb, John W.	MP 531	Czub, Gertje	TP 092	Datta, Rupali	ThP 135
Craft, David	MP 578	D'Eon, Tara M.	ThP 321	Daully, Claire	TOE am 09:15
Craft, David	TP 351	D'Mello, Rhijuta	WOC pm 04:10	Daus, Ann	TP 426
Craft, George E.	TP 409	D'Santos, Clive	MP 527	Dave, Jitendra R.	TP 443
Crafts, Christopher A.	WP 312	Da Campo, Raffaello	MP 144	David, Larry L.	MP 427
Cramer, Rainer	ThP 117	Daaro, Ibrahim	TP 259	David, Larry L.	TP 271
Cramer, Rainer	ThP 040	Dabney, David	TP 125	David, Russell H.	WP 044
Cramer, Rainer	ThP 116	Dabritz, Michael P.	MP 401	Davidkova, Marie	TP 400
Cramlett, Joshua	ThP 160	Dadgar, Dari	WP 334	Davidson, Max	ThP 452
Crane, Paul D.	WP 320	Dagdanova, Ayuna	MP 525	Davies, Amy	TP 228
Crawford, Elisabeth	MP 015	Dage, Jeffrey	TP 182	Davis, Barry D.	WP 388
Crawford, Elizabeth	WP 217	D'Agostino, Paul A.	ThP 152	Davis, Gregory F.	ThP 226
Crawford, Elizabeth	ThP 224	D'Agostino, Paul A.	TOG pm 03:10	Davis, Jennifer	MP 307
Crawford, Elizabeth	WOF pm 02:50	Dahl, Jeremy E.	MP 134	Davis, Lorelei	WP 313
Crawford, Elizabeth	MP 017	Dahl, Ken	TOF pm 03:50	Davis, Mary A.	TP 455
Creaser, Colin	ThP 259	Dahl, Rob	MP 320	Davis, Michael T.	WP 484
Creaser, Colin S.	MP 168	Dahlene, Marianne	MP 159	Davis, Sonnet	WP 144
Creaser, Colin S.	ThOE am 08z:55	Dai, Jia-Wei	WP 534	Daviter, Tina	WP 151
Creegan, James	WP 174	Dai, Jie	MP 526	Davoli, Enrico	ThP 138
Cremin, Peadar	WP 329	Dai, Jie	TP 521	Davoli, Enrico	TP 145
Cremin, Peadar	WP 253	Dai, Jie	WP 529	Dawoud, Abdulillah A.	WP 539
Crispin, Max D. M.	WOB am 09:55	Dai, Jingquan	ThP 108	Dawoud, Abdulillah A.	WP 204
Cristadoro, Anna	WP 568	Dai, Lan	ThP 458	Dawoud, Abdulillah A.	WP 502
Cristea, Ileana M.	MP 441	Dai, Zi-Guo	WOF pm 03:10	Dawson, Kevin	ThP 462
Cristea, Ileana M.	MP 574	Dain, Ryan	ThP 073	Dawson, William W.	ThP 100
Cristoni, Simone	TP 134	Dalmas, Deidre	ThP 470	Day, Nicholas P. J.	ThP 293
Cristoni, Simone	MP 024	Dalpathado, Dilusha S.	TP 384	Day, Robert M.	MP 182
Croasdell, Laura A.	TP 016	Daly, Don S.	WP 428	de Alwis, Hemakanthi	WP 562
Croasdell, Laura A.	WP 194	Daly, Don S.	WP 360	de Antueno, Roberto	ThP 450
Croixmarie, Vincent	WP 370	Dam Van, Jan C.	WP 367	de Godoy, Lyris	ThOB pm 04:10
Croley, Timothy R.	TP 232	Damoc, Eugen	MP 128	de Godoy, Lyris F.	TP 307
Croley, Timothy R.	MP 322	Damoc, Eugen N.	MP 392	de Groot, Christianne J.M.	WP 318
Croley, Timothy R.	ThP 372	Damsbo, Martin	TP 170	de Groot, Ronald	ThOB am 08:55
Cronin, Terri S.	ThP 198	Danan, Lieza A.	MP 398	De Jaeger, Geert	MP 446
Crosland, Susan	MP 168	Dancel, Maria Cristina A.	ThP 232	de Jong, Luitzen	TP 353
Crossman, Alan R.	TP 473	Danell, Allison S.	TP 015	De Keukeleire, Denis	ThOD pm 02:30
Crossman, Lee	ThP 096	Danell, Allison S.	WP 149	de Koning, Leo J.	TP 353
Crothers, Bronson H.	MP 087	Danell, Ryan	WP 072	de Koster, Chris G.	TP 353
Crow, Frank W.	MP 213	Danell, Ryan	ThOF am 08:55	De La Porte, Sabine	ThP 101
Croy, Carrie	ThP 410	Danell, Ryan M.	WP 373	De Matos Grania, Nara	TP 453
Crumbliss, Alvin L.	WP 464	Danell, Ryan M.	TP 015	De Moor, Bart	WP 078
Crumley, F. Gene	TP 095	Danell, Ryan M.	TOA pm 02:30	De Pauw, Edwin	WOA am 09:55
Crutchfield, John	ThP 206	Danelle, Ryan	TP 412	De Pauw, Edwin	TOE am 09:55
Crutchfield, John	MP 348	Daneshfar, Rambod	ThP 367	De Pauw, Edwin	ThP 506
Crye, James	MP 249	Daniel, McClosky	TP 215	De Souza, Andrea G.	ThP 488
Cuhra, Petr	TP 139	Daniel, Susan	ThP 107	de Souza, Gustavo	ThOB pm 04:10
Cuhra, Petr	ThP 235	Daniels, Hugh	WP 051	de Thonel, Aurélie	TP 524
Cui, Qui	WP 363	Daniels, Hugh	MP 306	De vijlder, Thomas	MP 446

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
de Vlieger, Jon	WP 346	Dernis, Dominique	MP 516	Ding, Chuan-Fan	WOF pm 03:10
Deakyne, Carol A	TP 060	Derrick, Peter J	WP 223	Ding, Li	WOF pm 03:10
Dean, Daniel	MOD am 09:35	Derrick, Peter J	ThOG am 09:15	Ding, Li	WP 095
Dearden, David V	MOE pm 03:30	Derrick, Peter J	MP 144	Ding, Li	WP 087
Debois, Delphine	TOC pm 03:30	Desai-Krieger, Daksha	MP 301	Ding, Shi-jian	TP 518
Debord, Justin	MP 147	Desaire, Heather	ThP 400	Ding, Wang-hsien	WP 210
Debrauwer, Laurent	ThP 330	Desaire, Heather	ThP 401	Ding, Wen	ThP 383
Decker, Petra	ThP 122	Desaire, Heather	TP 387	Dinman, Jonathan	MOA pm 03:30
Deelder, A.M.	TP 204	Desaire, Heather	TP 384	DiPasquale, Robert	MP 077
Deelder, André M	TP 283	Deschamps, Michel	TP 299	DiPerna, James	ThOC pm 04:10
Deelder, Andree	WP 311	Deshayes, Caroline	WP 504	DiPerna, James	WP 319
Deforce, Dieter	TP 556	Deshpande, Samir V	WP 427	Dittmar, Thorsten	TP 102
Degertekin, F. Levent	MOE am 10:55	Deshpande, Samir V	ThP 249	Divecha, Nullin	MOB am 10:15
Degitz, Sigmund J	MP 233	Deshpande, Samir V	MP 329	Dix, Melissa	ThP 500
Degnore, Jon P	TP 501	Deshpande, Shrikant	ThP 391	Dix, Melissa M	MP 440
deguchi, kisaburo	TP 277	Deshusses, Jacques	ThP 222	Dixit, Vishva	TP 279
Deguchi, Kisaburo	MP 204	Desjardins, Michel	ThOA pm 02:50	Dixon, Ken	TP 419
Dehio, Christoph	WP 535	Desmons, Annie	TP 299	Dixon, Kevin	MP 019
Deierling, Thomas	MP 339	Desouza, Leroi	WOA pm 03:10	Dixon, Robert B	MOE am 10:55
Deiningner, Soeren	WP 065	Deterding, Leesa J	TP 358	Dixon, Robert B	MP 085
Deiningner, Soeren-Oliver	WP 076	Detmer, Charles	ThP 241	Dixon, Robert B	ThP 016
Deiningner, Sören-Oliver	ThP 095	Devakumar, Arugadoss	TP 193	Dixon, Sarah J	MP 309
Deinzer, Max	WP 396	Devarapalli, Nagarjuna	TP 346	Dixon, Scott	MP 513
Deinzer, Max	MP 481	DeVito, Michael J	ThP 128	Djidja, Marie-Claude	TP 287
Deinzer, Max L	WP 028	Dey, S.K	TP 295	Dobrolecki, Lacey E	MOC am 10:55
Deinzer, Max L	WP 084	Dey, SK	MP 535	Dobrolecki, Lacey E	WP 303
DeKeyser, Stephanie S	WP 197	Deyanova, Ekaterina G	ThP 090	Dobrolecki, Lacey E	WP 317
DeKeyser, Stephanie S	TP 294	Deyanova, Ekaterina G	ThP 083	Dobson, Gareth	MP 037
Dekker, Lennard	WP 486	Dhaenens, Maarten	ThP 504	Dobson, Gareth S	ThP 060
Dekker, Lennard J M	TP 484	Dhooge, Patrick	ThP 146	Dobson, Rowan	TOE am 09:55
Delahunty, Claire	TP 160	Dhooge, Patrick	ThP 154	Dobson, Rowan LAURA	ThP 501
Delahunty, Claire	TP 163	Di Bussolo, Joseph M	ThP 188	Dodder, Nathan G	MP 229
Delalande, François	WP 504	Di Bussolo, Joseph M	ThP 190	Dodder, Nathan G	ThP 499
Delanghe, Bernard	MP 052	Di Donna, Leonardo	WP 141	Dodds, Eric	TP 383
Delanghe, Bernard	MP 128	Di Donna, Leonardo	WP 564	Dodds, Eric D	MP 203
DeLany, James P	TP 558	Di Falco, Marcos	WP 520	Dodds, Eric D	WOE pm 02:50
Delaunay, Nathalie	ThP 370	Di Falco, Marcos	WP 513	Doerge, Chris	ThP 050
DeLeon, Robert L	WP 120	Diaz, Arnaldo	ThP 107	Doerge, Christopher H	ThP 056
Delmotte, Nathanaël	MP 575	Diaz-Arevalo, Diana	MP 338	Doerge, Daniel R	ThP 294
DeLong, Alison	ThP 406	Dibussolo, Joseph	ThP 301	Doerge, Daniel R	ThP 298
Delval-Dubois, Véronique	MP 584	Dicheva, Nedyalka	TP 499	Doherty, Thomas P	ThP 231
DeMaria, Genevieve	ThP 538	Dicheva, Nedyalka	TP 553	Doherty, Tom	WP 565
Demczuk, Walter	MP 319	Dicheva, Nedyalka	WP 554	Dojahn, Jörg	ThP 392
Demeure, Kevin	TOE am 09:55	Dickel, Timo	TOF am 08:55	Doktycz, Mitchel J	WP 428
Demeure, Kevin	WOA am 09:55	Dickey, Robert W	WP 386	Dolman, Bas	TP 512
Demirev, Plamen A	WP 021	Dickinson, Danielle N	MP 329	Domon, Bruno	MP 558
Demirev, Plamen A	ThP 144	Dickinson, Patsy S	TP 087	Domon, Bruno	ThP 274
Demirev, Plamen A	ThP 489	Dickson, Hazel	ThP 098	Domon, Bruno	WOD pm 03:30
Demirev, Plamen A	ThP 156	Didier, Dani	MP 546	Domon, Bruno	TOB pm 04:10
Demireva, Maria P	MP 101	Didier, Daniela N	TP 380	Doneanu, Catalin E	ThP 402
Demireva, Maria P	MP 098	Dieckhaus-Fandozzi, Christine	ThOD pm 04:10	Doneanu, Catalin E	MP 499
Demmers, Jeroen A. A.	MOA pm 03:50	Dielman, Demetrius	ThP 384	Doneanu, Catalin E	WP 277
Denef, Vincent	MP 431	Dielman, Demetrius R	MP 474	Dong, Dahai	WP 190
Denef, Vincent J	TP 531	Diener, Matt	ThOG pm 02:50	Dong, Dahai	WP 321
Deng, Changhui	MP 568	Diener, Matthew J	TP 024	Dong, Henry	ThP 537
Deng, Haiteng	ThP 477	DiFalco, Marcos	MP 239	Dong, Jianan	MP 006
Deng, Haiteng	MP 507	Diffendal, Jason	MP 018	Dong, Meng-Qiu	MOA pm 04:10
Deng, Yanchun	ThP 463	Dihazi, Hassan	TP 446	Donoghue, Pam	TP 493
Dengjel, Joern	WP 468	Dijkwel, Paul P	TP 302	Doroshenko, Vladimir M	WOF am 09:15
Denis, Gerald V	WP 496	Dikler, Sergei	MP 306	Doroshenko, Vladimir M	MP 058
Denisov, Eduard	WP 081	Dikler, Sergei	WP 051	Doroshenko, Vladimir M	MP 060
Denisov, Eduard	MP 392	Dillin, Andrew	MOA pm 04:10	Doroshenko, Vladimir M	TP 036
Denisov, Eduard	ThOF am 09:35	Dillon, Leonard A	WP 194	Doroshenko, Vladimir M	ThP 159
Denker, Katrin	ThP 521	Dillon, Leonard A	TP 016	Doroshenko, Vladimir M	ThP 157
Dennhart, Nicole	ThP 216	Dilworth, Clive	MP 264	Doroshenko, Vladimir M	MP 059
Dennis, Donn M	MP 230	Dimartino, Gianluca	WP 006	Doroshenko, Vladimir M	MP 133
DeNoyer, Linda	MP 087	Dimopoulos-Italiano, Gina	WP 469	Dorow, Steven	WP 342
DeNoyer, Linda K	WP 286	Dindyal-Popescu, Alina	TP 186	Dorschel, Craig A	WP 275
Denton, M. Bonner	WOG pm 04:10	DinDyal-Popescu, Alina	ThP 170	Dorschel, Craig A	WP 430
Derks, Rico	WP 311	Ding, Chuan-Fan	WP 095	Dorschel, Craig A	TP 571

Program Code: M, T, W, Th = Day O = Oral A, B, C, D, E, F, G = Session am = Morning, pm = Afternoon Time  
M, T, W, Th = Day P = Poster Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Dorschel, Craig R.	TP 475	Duncan, Jason S.	TP 037	Edwards, Nathan	MOA pm 03:30
Dorsey, Thomas F.	WP 312	Duncan, Mark	TP 452	Edwards, Nathan	ThP 145
Dosch, Dominik	TP 324	Duncan, Mark	TP 444	Edwards, Robert	MP 450
Dosemeci, Ayse	ThP 520	Duncan, Mark W.	ThOC pm 02:30	Edwards, Samuel J.	WP 114
Dou, Jianpeng	ThP 342	Duncan, Roy	ThP 450	Efstathiou, Georgios	MP 225
Doucette, Chris	ThOA pm 03:10	Duncombe, Bridgette J.	WOG am 08:35	Efstathiou, Georgios	ThP 251
Doud, Katie	TOA pm 03:50	Dunk, Paul W.	MP 068	Egan, Thomas	MP 088
Douglas, D. J.	MP 484	Dunn, Jamie D.	ThP 038	Egan, Thomas	MOF am 09:55
Douglas, D. J.	ThP 057	Dunn, Mike	TP 493	Egan, Thomas F.	TP 054
Douglas, D. J.	ThP 055	Durazo, Armando	WP 463	Eggler, Aimee L.	ThP 427
Douglas, D.J.	TOE pm 03:30	Durham, Bill	TP 178	Ehrenkranz, Joel	WP 328
Douglas, Donald J.	ThP 059	Durinck, Steffen	TP 300	Ehrmann, Brandie M.	MP 140
Dove, William F.	WP 488	Durr, Eberhard	MP 470	Eibl, Guenther	WP 368
Dow, Natasha	TP 230	Dušek, Martin	TP 139	Eiceman, Gary	TP 046
Drader, Jared	ThOB am 09:35	Dutcher, Dabrina D.	MP 137	Eiceman, Gary	MP 025
Drake, Richard	TP 168	Dutta, Sanjoy	WP 301	Eiceman, Gary A.	ThOF pm 03:30
Drake, Richard R.	WP 259	Dvinge, Heidi	WOD pm 02:30	Eiceman, Gary A.	ThP 270
Drake, Richard R.	MOF am 10:15	Dwek, Raymond A.	WOB am 09:55	Eichelberger, Brian	ThP 410
Drake, Richard R.	MP 586	Dwivedi, Prabha	TP 058	Eichhorn, Thomas	TP 394
Drake, Richard R.	WP 268	Dwivedi, Prabha	ThOG pm 02:30	Eichhorst, Jeff C.	ThOC pm 03:10
Drasar, Vladimir	ThP 153	Dworzanski, Jacek P.	ThP 249	Eikel, Daniel	ThP 399
Drayss, Miriam	MP 117	Dworzanski, Jacek P.	WP 427	Eikel, Daniel J.	WP 506
Drayton, Marcus K.	MP 137	Dworzanski, Jacek P.	MP 329	Eiler, Sylvia	ThOG am 09:55
Dresen, Sebastian	MP 226	Dy, Jennifer G.	ThP 510	Eirefelt, Stefan	ThP 095
Drevinek, Michal	ThP 153	Dyer, Daniel J.	TP 514	Eisenacher, Martin	TP 468
Drexler, Dieter M.	WP 070	Dyer, James S.	MP 041	Eisenacher, Martin	TP 302
Driggers, Ed	MP 164	Dyer, James S.	MP 036	Eisenbrandt, Dave L.	ThOD am 09:35
Drogaris, Paul	MP 566	Dyson, Barry	WP 275	Eisman, Eli B.	WP 356
Drummond, James L.	WP 055	Dyson, Barry	WP 277	Eklund, Eivor	WP 257
Dryhurst, Glenn	MP 292	Dzerk, Alan	MP 263	Ekroos, Kim	TP 186
Du, Min	ThP 404	Dziciatkowska, Monika	WP 291	Ekroos, Kim	ThP 324
Du, Min	MP 400	Earnshaw, Caroline J.	WP 074	El Hassan, Inas	MP 093
Du, Yi	WP 548	Earp, H. Shelton	ThP 425	El Kazzouli, Said	ThP 354
Du, Yi	ThP 083	Easterling, Michael L.	WP 349	El Said, Kathleen R.	WP 386
Du, Yu-chun	WP 551	Easterling, Michael L.	MP 577	Elam, W. Tim	TP 035
Du, Yunpeng	TP 562	Easterling, Michael L.	MP 190	Elam, William T.	TP 024
Duale, Khadar	WOG am 08:35	Easterling, Michael L.	ThP 023	El-Ayed, Mohamed	WP 059
Duan, Penggao	TOG am 09:55	Easterling, Michael L.	WP 131	Elewaut, Dirk	TP 556
Dube, Neal	WP 254	Eastham, Ashley	MP 152	El-Hefnawy, Talal	WP 491
Dubin, Paul L.	ThP 279	Ebanks, Roger O.	MP 552	Eliuk, Shannon M.	TP 401
Dubois, Laura	ThP 470	Ebbel, Erika N.	MP 297	Eliuk, Shannon M.	MP 460
Dubois, Mathieu	ThP 303	Eberlim Corilo, Yuri	WP 020	Elkabes, Stella	TP 561
Dubois, Mathieu	WP 336	Eberlin, Livia Schiavinato	WP 112	El-Kattan, Ayman	TP 142
Duchoslav, Eva	WP 475	Eberlin, Marcos N.	WP 020	Elledge, Stephen J.	TOE pm 02:30
Duchoslav, Eva	ThP 170	Eberlin, Marcos N.	WP 111	Ellerby, Lisa M.	ThP 540
Duchoslav, Eva	ThP 166	Eberlin, Marcos N.	TP 066	Ellerby, Lisa M.	ThP 502
Duchoslav, Eva	ThP 171	Ebisawa, Maiko	ThP 472	Elliott, Monica H.	ThP 503
Duchoslav, Eva	TP 186	Echan, Lynn A.	WP 547	Ellis, Christopher E.	TP 564
Duchoslav, Eva	MP 501	Eckenrode, Brian	WP 231	Ellis, Jenny	ThP 421
Duchoslav, Eva	ThP 404	Eckenrode, Brian A.	MP 329	Ellis, Robert	TOD pm 03:30
Ducret, Axel	MP 452	Ecker, David	ThOB am 09:35	Ellis, Robert	WP 241
Ducret, Axel	MP 554	Eckers, Christine	ThOE am 08:55	Ellis, Robert	TP 092
Duda, Chester	WP 391	Eckersley, Timothy J.	WP 312	Ellsworth, Darrell	TP 451
Dudek, Steven M.	ThP 441	Eckert, Mathew	ThP 203	ElNagggar, Mariam S.	WP 198
Dudley, Ed	MP 296	Eckhardt, Katrin	WOD pm 03:30	Else, Paul L.	ThP 324
Duff, James	TP 441	Ecklund, James M.	TOB pm 03:30	Elssner, Thomas	TP 439
Dufresne, Guy	WP 397	Eddes, James	WP 493	Elvebak, Larry E.	ThP 168
Duft, Denis	MP 478	Eddes, James	TP 169	Embury, Suzanne	TP 159
Duft, Denis	WP 145	Eddes, James	MP 152	Emert-Sedlak, Lori	MP 494
Dugas, Alton	TOG pm 04:10	Edgeworth, Michael L.	WP 485	Emert-Sedlak, Lori	TOD am 08:55
Dugas, Tammy R.	WP 385	Edirisinghe, Praneeth D.	WP 055	Emert-Sedlak, Lori A.	TP 334
Duggan, Donovan	TP 510	Edmiston, Jeffery S.	MP 350	Emmett, Mark R.	TP 538
Duke, Jodie L.	TP 413	Edmondson, Ricky D.	WP 499	Emmett, Mark R.	WP 421
Dulgerian, Nishan	WP 231	Edmondson, Ricky D.	TP 482	Emmett, Mark R.	MP 493
Dumas, Rejean	MP 255	Edwards, Carl K.	TP 555	Emmett, Mark R.	TOB am 08:55
Dumont, Suzanne	MP 377	Edwards, Jack R.	ThP 016	Emmett, Mark R.	ThP 091
Dunbar, Rob C.	ThOG pm 03:30	Edwards, Linnell	ThP 124	Emmett, Mark R.	WP 497
Dunbar, Robert C.	ThOG pm 04:10	Edwards, Michael	TP 444	Emory, Joshua	WP 132
Duncan, Barbara	MP 256	Edwards, Michael	TP 452	Emory, Joshua F.	MOF pm 04:30
Duncan, Elizabeth M.	MP 458	Edwards, Nathan	ThP 147	Endtz, Hubert P.	WP 291

**Program Code:** M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Eng, Kevin	MP 566	Eyler, John R.	MP 192	Fehniger, Thomas	WP 069
Engel, Brian J.	MP 304	Eyler, John R.	TP 137	Feigerle, Charles	MP 033
Engelhard, Victor H.	MP 340	Ezan, Eric	WP 355	Feldman, Andrew B.	ThP 156
Engelman, Jeffrey A.	MP 179	Ezan, Eric	WP 370	Felton, James S.	ThP 467
Engels, Bernd	MP 117	Ezan, Eric	WP 336	Felton, James S.	ThP 104
Engen, John R.	TP 345	Ezan, Eric	ThP 303	Felton, James S.	TOC pm 03:50
Engen, John R.	MP 494	Fabris, Daniele	WP 453	Felton, Jeremy A.	WP 216
Engen, John R.	MP 489	Fabris, Daniele	ThP 068	Feng, Jian	ThOB pm 03:10
Engen, John R.	TOD am 08:55	Fabris, Daniele	WOC am 09:35	Feng, Juan	ThOE pm 04:10
Engen, John R.	TP 334	Fabris, Daniele	WP 477	Feng, Li-chia	WP 552
Engholm-Keller, Kasper	WP 530	Fabris, Daniele	WP 144	Feng, Xidong	ThP 081
Engholm-Keller, Kasper	MP 442	Fabris, Daniele	WP 163	Feng, Xuezu	MOA am 09:15
Engleman, Eric A.	MP 283	Faca, Vitor	TP 458	Fenn, John B.	MOE am 09:15
Engstrand, L.	TP 563	Faca, Vitor	WP 495	Fenn, Larissa S.	TP 050
Enke, Christie G.	ThP 060	Fagerquist, Clifton K.	MP 327	Fenn, Larissa S.	TP 054
Enke, Christie G.	MP 037	Fagin, Adelaide	MOE pm 04:10	Fenselau, Catherine	ThP 147
Enoksson, Mari	ThP 536	Fahey, Albert	ThOG am 09:35	Fenselau, Catherine	MP 487
Ens, Werner	MP 026	Falasca, Sara	MP 503	Fenselau, Catherine	ThP 145
Ens, Werner	ThP 121	Falconer, Travis M.	TP 028	Fenselau, Catherine	MOA pm 03:30
Ens, Werner	TOE am 08:55	Falconer, Travis M.	TP 027	Fenyo, David	ThP 517
Epstein, Jonathan A.	MP 197	Falick, A. M.	TP 359	Fenyö, David	MP 371
Erb, William J.	WP 040	Falk, Ronald J.	MP 335	Fergenson, David P.	TOG pm 03:30
Erhardt, David	TP 480	Falkenhagen, Jana	MOG pm 04:10	Ferguson, James	TP 233
Erickson, Brian	TP 398	Falkner, Jarret W.	MP 186	Ferguson, Jonathan T.	WOA am 08:35
Erickson, David E.	ThP 056	Falkner, Jayson A.	MP 186	Ferguson, P. Lee	ThP 126
Erickson, David E.	ThP 050	Falkner, Jayson A.	TP 164	Ferguson, Peter L.	TP 342
Erickson, Mary	MP 379	Faller, Douglas V.	WP 496	Ferguson-Miller, Shelagh	ThP 453
Eriksson, Jan	ThOB pm 02:30	Fallon, John K.	WP 550	Fernandes, Andrea	MP 346
Eriksson, John E.	TP 524	Fälth, Maria	MP 370	Fernandez, Bernadette O.	ThP 528
Eriksson, John E.	TP 526	Fälth, Maria	MP 371	Fernandez, Facundo	MP 008
Ermolenkov, Vladimir V.	WP 458	Fälth, Maria	TP 473	Fernandez, Facundo	MOE am 10:55
Ernst, Robert K.	WP 416	Fan, Juan	ThP 306	Fernandez, Facundo M.	WP 102
Erol, Halil	ThP 188	Fan, Xing	ThP 019	Fernandez, Joseph	MP 507
Erwin, Robert L.	ThP 462	Fanelli, Roberto	ThP 138	Fernandez, Joseph	ThP 477
Eshoo, Mark	ThOB am 09:35	Fang, Qingming	TOC am 09:55	Fernandez de la Mora, G.	MP 021
Esposito, Dominic	TP 432	Fang, Xiangming	MP 585	Fernandez de la Mora, J.	MP 021
Espourteille, Francois A.	ThP 192	Fang, Xinping	ThP 508	Fernandez de la Mora, Juan	ThOF pm 03:50
Essex, David W.	TP 350	Fang, Yanyan	ThOG am 08:15	Fernandez de la Mora, Juan	MP 029
Estevez, F.	MP 021	Farachi, Fernanda	ThP 138	Fernández de la Mora, Juan	WP 106
Estevez, Francisco	ThOF pm 03:50	Farah, Mohammad Abul	MP 216	Fernandez-Gutierrez, Alberto	ThP 349
Estévez, Francisco	WP 106	Farber, Matthew R.	TP 109	Fernandez-Gutierrez, Alberto	ThP 122
Etter, Michele L.	ThOC pm 03:10	Farkas, Michael	ThP 132	Fernandez-Lima, F. A.	TP 045
Etzkorn, Jacob M.	TP 096	Farkas, Tivadar	ThP 297	Fernandez-Metzler, Carmen	MOD am 10:35
Eustis, Soren	MP 022	Farkas, Tivadar	WP 571	Fernandez-Metzler, Carmen	WP 254
Evans, Anne	MP 291	Farquar, George R.	TOG pm 03:30	Fernandez-metzler, Carmen L.	MP 410
Evans, Jason	TP 187	Farrar, Jeremy	ThP 293	Fernando, Ganga	TP 514
Evans, Jason	TP 190	Farrell, James J.	ThP 460	Fernando, Vijanaka	MP 026
Evans, Matt	ThP 150	Farrell, Laurie	WOD am 08:15	Ferraris, Saima E.	TP 524
Evans, Ronald	MP 353	Farrell, Nicholas P.	WP 166	Ferreira, Joana	WP 408
Evans, Ronald A.	MP 234	Fasano, Francesca	TP 095	Ferrell, Tyler A.	MOE pm 03:30
Evans, William J.	ThP 359	Fasano, William J.	ThP 103	Ferrer, Imma	ThOG am 08:15
Evans-Nguyen, Kenyon M.	ThP 225	Faubert, Amelie	WP 538	Ferrige, Tony	ThP 262
Evans-Nguyen, Kenyon M.	MP 409	Faubert, Denis	ThP 217	Ferris, James P.	ThP 373
Evans-Nguyen, Theresa	WOF am 09:15	Faubert, Denis	MP 563	Ferrucci, Luigi	MP 409
Evason, D J.	ThP 065	Faull, Kym	WOD pm 03:10	Ferruzzi, Mario G.	WP 375
Evason, D J.	WP 046	Faull, Kym F.	WP 463	Fialkov, Alexander B.	TOG am 09:35
Evason, D J.	ThP 413	Faull, Kym F.	ThP 460	Ficarro, Scott B.	ThP 175
Evason, David	MP 328	Faull, Kym, F.	WOA am 08:55	Ficarro, Scott B.	MOA am 09:15
Evenson, Mary D.	WP 184	Fay, Laurent Bernard	MP 157	Fico, Miriam	WP 093
Everley, Robert A.	TP 232	Fay, Laurent-Bernard	MP 163	Fico, Miriam	ThP 148
Everley, Robert A.	MP 322	Fazio, Mike	ThP 326	Fico, Miriam	MP 115
Evreinov, Victor V.	TP 144	Fazio, Mike	ThP 332	Fiddler, Marc	TP 111
Eyers, Claire	MP 196	Fearnley, Ian M.	MP 465	Fiedler, Martin	TP 439
Eyers, Claire E.	WP 505	Fedoreyev, Sergey	WP 396	Fiehn, Oliver	WP 365
Eyet, Nicole	WP 123	Fedorov, Andrei G.	MOE am 10:55	Fiehn, Oliver	MP 166
Eyler, John	TP 192	Fedorov, Evgueni	WP 171	Fiehn, Oliver	ThP 368
Eyler, John R.	ThOG pm 03:30	Fedorov, Alexandr	MP 109	Fielden, Peter R.	TP 016
Eyler, John R.	WP 153	Feelisch, Martin	ThP 528	Fielden, Peter R.	WP 194
Eyler, John R.	WP 011	Fegley, Glenn J.	TP 413	Fifer, Michael A.	WOD am 08:15
Eyler, John R.	WP 018	Fehniger, Thomas	ThP 095	Figard, Benjamin J.	WP 028

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Figg, William D.	WP 169	Fournier, Françoise	WOG am 09:15	Friso, Giulia	ThP 491
Fikrig, Erol	TP 538	Fournier, Françoise	MP 048	Fritz, Marc	TP 553
Filippov, Igor	ThP 045	Fournier, Isabelle	WP 066	Frizzell, Norma	TOB pm 02:30
Finch, Jeffrey W.	ThP 178	Fournier, Isabelle	TP 299	Froehlich, John	TP 383
Finney, Gregory	MOA am 09:55	Fournier, Isabelle	WP 059	Froelich, Jennifer M.	TP 082
Firek, Brian	MP 080	Fournier, Isabelle	MOF am 10:35	Froesch, Martin	TP 297
Fischer, Andrew T.	WP 090	Fournier, Marjorie	TP 303	Frosyni, Charalampia	TP 090
Fischer, Steven M.	ThP 246	Fowler, William U.	ThOA pm 03:10	Frycak, Petr	WP 136
Fischer, Steven M.	WP 377	Fox, Alvin	TP 450	Fryrear, Kimberly	ThP 437
Fischer, Wolfgang H.	WP 478	Fox, Joseph	TP 131	Fu, Mingkun	TP 069
Fiser, Andras	TP 156	Fox, Joseph P.	WP 511	Fu, Mingkun	TOG am 09:55
Fiser, Andras	TP 537	Fox, Karen	TP 450	Fu, You-Jun	MP 425
Fishel, Rick	MOB am 09:55	Frahm, Jennifer L.	ThP 481	Fucharoen, Pranee	WP 315
Fisher, Susan	MP 513	Frahm, Jennifer L.	MP 050	Fucharoen, Suthat	WP 315
Fisher, Susan J.	WP 293	Francese, Simona	MOE pm 04:30	Fuchs, Beate	WP 414
Fishman, Vyacheslav N.	WP 212	Francis, Jimi	WP 302	Fuetterer, Arne	WP 076
Fitch, Bill	ThOD pm 02:50	Franck, Julien	WP 059	Fuhrer, Katrin	WP 102
Fitzgerald, Michael C.	WP 464	Frank, Ari	WP 283	Fujii, Ken-ichi	MP 075
Fitzgerald, Michael C.	TP 340	Frank, Brigitte	TOB pm 03:50	Fujii, Ken-ichi	MP 074
Fitzgibbon, Matthew	TP 458	Frank, Matthias	ThP 155	Fujii, Kiyonaga	TP 476
Fitzhugh, Valere	ThP 511	Frank, Matthias	TOG pm 03:30	Fujii, Kiyonaga	ThP 472
Fitzhugh, William	TP 441	Franklin, Luke	MP 137	Fujita, Nobuyuki	TP 543
Fjeldsted, John	WP 510	Franssila, Sami	WP 205	Fujiwara, Hideji	MP 155
Fjeldsted, John C.	MP 076	Franssila, Sami	TOF pm 04:10	Fukaya, Haruhiko	ThP 006
Flad, Thomas	TP 446	Franssila, Sami	TP 011	Fukuyama, Yuko	WP 290
Flangea, Corina	WOB am 09:15	Franssila, Sami	WP 203	Fuller, Brian F.	TP 500
Flannery, Carl	TP 368	Franssila, Sami	TP 020	Fuller, Thomas W.	MP 586
Fleckenstein, Annette E.	TP 582	Franz, Andreas	TP 535	Funatsu, Shinji	ThP 275
Flensburg, John	WP 546	Franz, Andreas H.	ThP 369	Furgeson, Amanda	ThP 004
Flett, Fiona	WP 473	Frappier, Sara L.	WP 485	Furlani, Thomas R.	WP 120
Flewelling, Leanne	WP 386	Frappier, Sara L.	TP 288	Furlong, Edward T.	MOC pm 03:30
Flora, Jason W.	MP 350	Fraterman, Sven	WP 285	Furlong, Edward T.	ThOG am 08:55
Florens, Laurence	ThP 268	Frawley, Nile	ThP 384	Furr, Carlette	WP 184
Florens, Laurence	TP 303	Frawley, Samantha M.	ThP 420	Fursey, Victor. G.	TP 449
Flosadottir, Helga Dogg	WOG am 08:55	Frazer, William	MP 076	Furtos, Alexandra	ThP 217
Floyd, Z. Elizabeth	TP 558	Frederick, Brian G.	MP 087	Furuhashi, Osamu	MP 099
Flynn, Kathleen M.	TP 106	Fredrickson, James K.	MOB pm 05:10	Futrell, Jean H.	TP 025
Flynn, Charles	MP 517	Fredriksen, Laura	WP 458	Futrell, Jean H.	MP 047
Flynn, Helen	MP 439	Freed, Julie K.	ThP 323	Gabelica, Valérie	WOA am 09:55
Flynn, Kathleen M.	MOG pm 05:10	Freeke, Joanna	WP 143	Gabius, Hans-Joachim	MP 330
Foehr, Erik	ThP 295	Freeman, Colin G.	WP 114	Gade, Soeren	WP 468
Foltz, Rodger L.	WP 322	Freeman, Michael R.	TP 488	Gadgil, Himanshu	WOA am 09:35
Fonnum, Gier	MP 436	Freeman, Samara L.	WP 302	Gadgil, Himanshu	TP 273
Fonovic, Marko	ThP 476	Freimark, Lisa M.	TP 310	Gadgil, Himanshu S.	TP 489
Fonseca-Corona, Cristina	TP 127	Freindorf, Marek	WP 120	Gadgil, Himanshu S.	ThP 280
Foote, Jim	ThP 231	Freitas, Michael A.	TP 269	Gadgil, Himanshu S.	ThP 388
Foote, Jim	WP 565	Freitas, Michael A.	MP 195	Gaeb, Siegmur	MP 032
Foote, Linda J.	WP 428	Freitas, Michael A.	TP 268	Gaeb, Siegmur	TOF am 09:55
Forbes, Matthew W.	ThOG pm 03:50	Freitas, Michael A.	ThOA am 09:15	Gaeb, Sigmar	ThP 008
Forbes, Thomas P.	MOE am 10:55	Freitas, Michael A.	MP 199	Gaffen, Sarah L.	ThP 436
Force, Michael	ThP 373	Freitas, Michael A.	MOB am 09:55	Gafni, Juliette	ThP 502
Forcher, Verena	WP 368	French, Barbara	WP 480	Gagne, Sebastien	TP 189
Ford, David A.	ThP 242	French, Samuel	WP 480	Gagne, Sebastien	ThP 027
Ford, Kris	ThP 405	Frey, Brian L.	ThP 323	Gagné, Pierre	MP 585
Foret, František	ThP 026	Frey, Brian L.	MP 461	Gagnon, Hélène	WP 229
Forget, Diane	MP 563	Frey, Brian L.	MOD pm 04:50	Gagnon, Luc	ThP 112
Formolo, Catherine A.	MP 528	Frey, Rob	ThP 245	Gakwaya, Robert	TP 190
Forner, Francesca	MP 534	Frey, Rob	ThP 142	Galan?, Jacob	WP 527
Forsberg, Gun-Britt	TP 186	Freyer, James P.	WOD am 09:15	Galan, Jacob A.	MP 509
Fortier, Serge	ThP 112	Fridgen, Travis D.	WP 134	Galasso, Samantha A.	MP 150
Fortin, Louise	MP 377	Fridgen, Travis D.	WP 131	Galbiati, Francesca	MP 271
Fortson, Susan L.	ThP 467	Fridman, Tema	MP 182	Galbraith, David W.	TP 296
Fortson, Susan L.	TOC pm 03:50	Friedman, David B.	MP 535	Galeva, Nadezhda A.	WP 338
Foster, Fredrick D.	WP 187	Friedman, David B.	MP 452	Galhena, Asiri	WOE pm 03:10
Foster, H.A.	MP 328	Friedman, Jeffrey	MP 173	Galhena, Asiri S.	WP 148
Foster, Mendy L.	TP 217	Fries, David	MP 042	Galhena, Asiri S.	TOD am 09:15
Fourie, G.	WP 324	Friese, Matthew	MP 545	Gallegos-Perez, Jose-Luis	TP 127
Fournier, Françoise	MP 102	Friesen, Duane A.	TP 096	Gallien, Sebastien	TP 494
Fournier, Françoise	TP 188	Frimpong, Agya K.	TP 335	Gallien, Sébastien	WP 504
Fournier, Françoise	WP 164	Friso, Giulia	TP 315	Gallis, Byron	WOD pm 04:10

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Galonic, Danica P	WP 400	Gau, Brian C	TP 343	Gibbs, Bernard	WP 520
Galve, Ariadna	ThP 113	Gaucher, Sara	TP 546	Gibbs, Bernard	MP 239
Galve, Mrs. Ariadna	WP 255	Gaucher, Sara	TP 337	Gibbs, Bernard	ThP 531
Gamage, Chaminda M.	MP 059	Gaus, Hans J	ThP 335	Gibbs, Bernard	WP 513
Gamage, Chaminda M.	TP 036	Gauthier, Georges	WP 200	Gibbs, Bernard	TP 444
Gamage, Chaminda M.	MP 058	Gauthier, Georges	TP 498	Gibbs, Bernard	MP 518
Gaman, Emily A.	ThP 540	Gauvreau, Véronique	ThP 361	Gibbs, Bernard	WP 489
Gambetti, Pierluigi	MP 525	Gavrik, Mikhail	TOF am 09:15	Gibbs, Bernard	ThP 480
Gamble, Tanya	MP 260	Gawinowicz, Mary Ann	ThP 439	Gibbs, Bernard	TP 435
Ganesan, Bala	TP 467	Gay, Martha L.	ThP 346	Gibbs, Bernard	TP 328
Gangoiti, Jon	MOD pm 05:10	Ge, Ying	ThP 416	Gibbs, Bernard	MP 502
Gao, Junling	MP 274	Gebhardt, Christoph	MOF pm 03:50	Gibert, Josep Maria	ThP 113
Gao, Lan	ThP 333	Gebler, John	MP 580	Gibert, Mr. Josep Maria	WP 255
Gao, Liang	WP 083	Gebler, John C.	ThP 178	Gibert, Mr. Roger	WP 255
Gao, Liang	TP 037	Gebler, John C.	MP 499	Gibert, Roger	ThP 113
Gao, Lina	MP 347	Gebler, John C.	MOA pm 04:50	Giblin, Daryl	MP 110
Gao, Qiang	TP 570	Gebler, John C.	ThP 402	Giblin, Daryl	MP 105
Gao, Sharon	ThP 288	Geddes, Kristin	WP 254	Giblin, E. Michael	WP 415
Gao, Xiaoli	WP 356	Geer, Lewis Y.	TP 161	Gibson, Bradford W.	MP 404
Gao, Yuan	WP 445	Geer, Lewis Y.	TP 153	Gibson, Bradford W.	ThP 540
Garbis, Spiros D.	TP 469	Gehlenborg, Nils	WOD pm 03:30	Gibson, Bradford W.	TP 513
Garbis, Spiros D.	WP 483	Gehrig, Peter	ThOA am 08:55	Gibson, Bradford W.	ThP 502
Garbis, Spiros D.	MP 434	Gehrke, Mark	MP 304	Gidden, Jennifer	TP 178
Garces, Camila	TP 124	Gehrke, Mark	MP 313	Gidden, Jennifer	TP 346
Garcia, Angelica M.	ThP 354	Geissel, Hans	TOF am 08:55	Gielow, Elizabeth	TP 363
Garcia, Benjamin A.	TOB am 09:35	Gelb, Michael H.	WP 310	Gies, Anthony P.	TP 126
Garcia, David	MP 320	Gelfand, Craig	TP 351	Gies, Anthony P.	TP 119
Garcia, James	ThP 344	Gelfand, Craig A.	MP 578	Giese, Ronald	TOF am 09:55
Garcia, Joe G.N.	ThP 441	Gelfanova, Valentina	TOA am 08:15	Giessing, Anders	ThP 409
Garcia-Canas, Virginia	TP 559	Gelhaus, Stacy	WP 380	Gilka, Eleni	WP 359
Garcia-Saura, Maria F.	ThP 528	Gentzel, Marc	WP 285	Gil, Carlos	WP 187
Gard, Eric	ThP 155	Gentzel, Marc	MP 414	Gilar, Martin	MOA pm 04:50
Gard, Eric E.	TOG pm 03:30	George, Stephen	ThP 133	Gilar, Martin	MP 580
Gardner, Erin R.	WP 169	Georgianna, D. Ryan	TP 536	Gilbert, Jeffrey	ThP 332
Gardner, Michael S.	MP 415	Georgianna, G. Ryan	TP 579	Gilbert, Jeffrey R.	TP 146
Gardner, Michael S.	MP 582	Gerdon, Aren E.	TP 119	Gilbert, Jeffrey R.	ThP 137
Gardner, Myles W.	ThP 078	Gerhard, Marc	WP 076	Gilbert, Michel	WP 291
Gareil, Pierre	ThP 370	German, J. Bruce	WP 302	Gilbert, Nick	TP 270
Garin, Jerome	TP 144	Germanus, Andreas	WP 381	Gilchrist, Kristin H.	WOF am 09:35
Garin, Jérôme	ThP 184	Geromanos, Scott J.	WP 275	Giles, Kevin	TP 057
Garmash, Andrey V.	MP 141	Geromanos, Scott J.	ThP 178	Giles, Kevin	TP 041
Garner, Carlos O.	MP 417	Geromanos, Scott J.	WP 277	Giles, Kevin	TP 084
Garofalo, Daniela	WP 008	Geromanos, Scott J.	WP 430	Giles, Roger	MP 040
Garofolo, Fabio	WP 248	Geromanos, Scott J.	TP 475	Giles, Roger	ThP 053
Garofolo, Fabio	MP 308	Geromanos, Scott J.	TP 571	Gilfix, Brian	MP 518
Garofolo, Fabio	TP 241	Gerrits, Bertran	MP 387	Gilfix, Brian	WP 513
Garofolo, Fabio	TP 239	Gerrits, Bertran	ThOG am 09:55	Gill, Christopher G.	TP 096
Garofolo, Fabio	MP 169	Gershenson, Jonathan	WP 471	Gill, Helen	MP 264
Garofolo, Fabio	WP 256	Gershon, Paul D.	TP 532	Gill, Nishi	WP 566
Garofolo, Fabio	WP 558	Gerszten, Robert E.	TOB pm 03:10	Gill, Sonia	TP 219
Garofolo, Fabio	ThP 361	Gerszten, Robert E.	WOD am 08:15	Gillard, Nathalie	TP 400
Garret, Timothy	TP 216	Geyer, Roland	TP 184	Gilles, Nicolas	TOE am 09:55
Garrett, Jennifer A.	TP 048	Ghanbour, H.A.	MP 328	Gillespie, Ron	TP 424
Garrett, Scott	TP 575	Ghirri, Paolo	MP 220	Gillespie, Todd	ThP 378
Garrett, Timothy	ThP 338	Ghitun, Mihaela	WP 200	Gillespie, Todd A.	TP 266
Garrett, Timothy J.	ThP 100	Ghobarah, Hensham	ThP 375	Gillette, Martha U.	MP 366
Garrett, Timothy J.	MP 302	Ghobarah, Hesham	TP 224	Gillette, William K.	TP 432
Garrett, Timothy J.	WP 080	Ghobarah, Hesham	TP 227	Gillig, K.	TP 045
Gartlon, Jane	MP 532	Ghobarah, Hesham	MP 248	Gillig, Kent J.	TP 056
Garvey, James F.	WP 120	Ghosh, Soumitra	MP 390	Gillig, Kent J.	WP 107
Garza, Selynda	WP 193	Ghosh, Soumitra	WP 045	Gilmore, Joshua M.	ThP 268
Garza, Selynda	WP 201	Ghosh, Soumitra	MP 379	Gilmore, Sarah	MOC am 10:35
Gaskell, Simon	MP 439	Ghoshal, Amit K.	WP 314	Gilmore, Sarah	TP 306
Gaskell, Simon J.	MOA am 10:55	Gianellini, Laura	ThP 432	Gimbert, Yves	WP 113
Gaskell, Simon J.	TP 084	Giardina, Matthew	TOF am 09:15	Gimble, Jeffrey M.	TP 558
Gaskell, Simon J.	WP 505	Giardina, Matthew	TP 004	Ginanneschi, Mauro	ThP 082
Gaskell, Simon J.	MP 196	Giavalisco, Patrick	WP 353	Ginsanrin, Oluwatosin	MP 295
Gaskell, Simon J.	ThOA pm 02:30	Gibb, Iain	TP 094	Ginsberg, Geoff.	WP 554
Gatschelhofer, Christina	WP 195	Gibbs, Bernard	TP 452	Ginsberg, Mark H.	ThP 429
Gatzek, Stephan	WP 376	Gibbs, Bernard	TP 547	Ginter, Joy M.	WP 511

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space



INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Ginter, Joy M.	ThP 343	Gonin, Marc	WP 102	Gray, David J.	ThP 211
Ginter, Joy M.	ThP 151	Gonzalez, Raymond J.	MP 511	Gray, Michelle	ThP 529
Giordano, Laurent	WP 113	Good, David M.	TOB am 09:55	Gray, Nathanael S.	WP 525
Giorgi, Gianluca	ThP 082	Good, David M.	MOF pm 04:50	Greaves, John	ThP 359
Giorgi, Gianluca	MP 109	Good, David M.	MP 508	Green, Brett J.	MP 323
Giorgianni, Francesco	MP 495	Goodell, H Paul	ThP 198	Green, Brian N.	TP 057
Giovannoni, Steve J.	TP 529	Goodenough, Angela K.	TOC am 09:35	Green, Brian N.	MP 225
Girard, Michel	TP 559	Goodlett, David R.	ThOF am 09:15	Green, Jason R.	MP 115
Gitlin, Ellis	TP 451	Goodlett, David R.	MOB pm 04:10	Green, Kirk	MP 171
Giuliani, Alexandre	TP 198	Goodlett, David R.	WOD pm 04:10	Green, M. Kirk	WP 469
Giuliani, Alexandre J.	ThP 010	Goodlett, David R.	MOF pm 05:10	Green, M. Kirk	ThP 525
Givogri, Maria	MP 271	Goodlett, David R.	WP 416	Green, Martin	ThP 051
Gjervig-Jensen, Klaus	TP 226	Goodlett, David R.	WOC am 08:55	Green, Martin	TP 493
Glandorf, Jorg	TP 147	Goodley, Paul	WP 510	Green, Michael	MP 008
Glasmachers, Albrecht	WP 092	Goodley, Paul C.	ThP 020	Green, Philip S.	MP 168
Glass, Jeffrey T	WOF am 09:35	Goodwin, Mike	WP 119	Greenberg, Steven	MP 538
Glavy, Joseph	MP 441	Goodwin, Richard J A	TP 285	Green-Church, Kari B.	MP 500
Gleiter, Christoph	WP 390	Gordillo, Ruth	ThP 315	Green-Church, Kari B.	ThP 079
Glick, James	ThP 336	Gordin, Alexander	ThP 238	Greene, Andrew	ThP 492
Glick, James	TOC am 08:35	Gordin, Alexander	TOG am 09:35	Greene, Andrew S.	ThP 323
Gliser, Camelia	WOE am 08:55	Gordish-Dressman, Heather	TP 301	Greene, Andrew S.	TP 380
Glish, Gary	ThOF am 08:55	Gorenstein, Marc V.	TP 475	Greene, Andrew S.	ThP 228
Glish, Gary L.	MP 101	Gorenstein, Marc V.	WP 277	Greene, Andrew S.	MP 546
Glish, Gary L.	MP 098	Gorenstein, Marc V.	WP 275	Greenough, William T.	MP 372
Glish, Gary L.	TP 028	Gorga, Joan C.	MP 401	Greenwood, Tiffany R.	TP 297
Glish, Gary L.	TP 027	Gorin, Andrew A.	MP 182	Gregory, Jesse F.	ThOB am 09:15
Glish, Gary L.	ThP 077	Gorman, Lee A.	TP 235	Gregory, Kowald	MOG am 09:55
Glish, Gary L.	WP 216	Gorshkov, Alexander V.	TP 144	Gregory, Mark	WOF am 08:35
Glish, Gary L.	WP 220	Gorshkov, Michael	WP 023	Gregory, Mark	TP 026
Glish, Gary L.	TP 370	Gorshkov, Mikhail V.	MP 058	Gregson, Brian	MP 042
Glocker, Michael O.	MP 339	Gorshkov, Mikhail V.	MP 060	Greis, Kenneth D.	ThP 226
Glover, Nick	TP 168	Gorshkov, Mikhail V.	MP 059	Gremaud, Eric	ThP 379
Glückmann, Matthias	MP 464	Gorshkov, Mikhail V.	TP 144	Gresham, Garold	TP 060
Glukhova, Veronika	TP 458	Gorshkov, Vladimir A.	ThP 080	Gresham, Gary	MP 119
Glunde, Kristine	TP 297	Gorski, Waldemar	MP 034	Gresham, Gary	MP 107
Gnad, Florian	TP 522	Goshe, Michael B.	MP 556	Grey, Angus C.	TP 292
Gnad, Florian	ThP 408	Goshe, Michael B.	TP 341	Griep-Raming, Jens.	WP 081
Gnad, Florian	ThOA am 09:55	Goss, Greg G.	ThP 488	Griffin, Noelle M.	ThP 496
Go, Eden P.	TP 384	Goto, Ronald M.	MP 334	Griffin, Patrick R.	ThOA pm 03:30
Go, Eden P.	ThP 400	Govorun, Vadim M.	MP 324	Griffin, Patrick R.	WOC pm 02:30
Go, Eden P.	ThP 401	Govorun, Vadim M.	ThOC pm 02:50	Griffin, Patrick R.	WP 262
Go, Eden P.	TP 387	Goyal, Samita	MOE am 09:35	Griffin, Patrick R.	TP 329
Goddard, Nick J.	WP 194	Gozet, Fatma Tuba	ThP 063	Griffin, Robert J.	ThOB am 08:35
Goddard, Nick J.	TP 016	Gozzo, Fabio C.	TP 355	Griffin, Robert J.	WOA pm 02:30
Godejohann, Markus	MP 285	Gozzo, Fabio C.	WOC am 09:15	Griffin, Timothy J.	ThOE pm 04:10
Godfrey, Ruth	MP 296	Gqamana, Putuma P.	MOG pm 03:50	Griffin, Timothy J.	WOA pm 02:30
Godin, Jean Philippe	MP 157	Graber, Armin	WP 368	Griffin, Timothy J.	ThOB am 08:35
Godin, Jean-philippe	MP 163	Graber, Armin	WOD am 08:35	Griffith, Kara	MP 119
Goerlitz, Linus	WP 282	Gradolatto, Angeline	TP 366	Griffith, Wendell P.	ThP 485
Goessling, Wolfram	TP 464	Grafelman, Daryl	TP 242	Grimm, Rudolf	ThP 282
Goetz, John A.	TP 392	Grafenstein, Hermann von	TP 344	Grimm, Rudolf	ThOB am 08:15
Goetz, John A.	WP 303	Graham, Devon	ThP 530	Grimm, Rudolf	ThP 187
Goetz, Regina	MP 200	Graham, Elizabeth D.	WP 330	Grimm, Rudolf	WP 302
Goetz, Sebastian	WP 390	Graham, Ian	WP 405	Gristenko, Marina	WP 533
Goetz, Sebastian	WP 381	Graham, Mark E.	TP 409	Grivet, Chantal	ThP 289
Goffinont, Stephane	TP 400	Gramer, Karl	MP 309	Groenewold, Gary	MP 107
Gold, Mark S.	ThP 530	Granade, Hudson R.	WP 386	Groenewold, Gary	MP 119
Goldberger, Bruce A.	MP 230	Grange, Andrew H.	WP 009	Groenewold, Gary S.	TP 060
Golden, Erin C.	TP 443	Granger, Florence	ThOG am 09:55	Gröger, Thomas M.	ThP 236
Goldsmith, Elizabeth J.	MP 393	Granot, Ori	ThP 055	Gronborg, Mads	ThP 407
Goldspink, Geoffrey	ThP 259	Grant, Jennifer E.	TP 561	Gronemeyer, Thomas	TP 468
Golenko, Eva	MP 397	Grant, Kathleen	MP 539	Gronert, Scott	MOE pm 04:10
Golick, Dan	WP 277	Grant, Kirsten J.	MP 373	Groopman, John D.	TOA am 08:35
Golick, Dan	WP 275	Grant, Patrick G.	ThP 015	Gros, Meritxell	ThOG am 08:35
Gollapudi, B. Bhaskar	MP 344	Grant, Russell P.	WP 167	Gros, Meritxell	WP 206
Gollapudi, B. Bhaskar	ThP 009	Grant, Russell P.	WP 309	Groseclose, M. Reid	WP 056
Gomez, Andrea	MP 385	Grant, Seth G.	WP 526	Groseclose, M. Reid	WP 054
Gomez-Mancilla, Baltazar	MP 544	Graumann, Johannes	WP 474	Groseclose, M. Reid	WP 057
Gong, Yan	TP 487	Gravato-Nobre, Maria Joao	MP 208	Gross, Deborah	MP 137
Gong, Yan	TP 466	Gravois, Amy	TP 558	Gross, Heather	MP 256

Program Code: M, T, W, Th = Day    O = Oral    A, B, C, D, E, F, G = Session    am = Morning, pm = Afternoon    Time  
M, T, W, Th = Day    P = Poster    Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Gross, Juergen H.	ThP 366	Guillette Jr., Louis J.	ThP 230	Hackett, Murray	TP 545
Gross, Michael L.	MP 486	Guinn, Robyn	MP 240	Haddad, Iman	ThP 544
Gross, Michael L.	WP 448	Guitton, Nathalie	TP 147	Haddon, William F.	WP 314
Gross, Michael L.	ThP 029	Gulcicek, Erol E.	MP 435	Hadi, Masood	TP 337
Gross, Michael L.	MP 479	Gulcicek, Erol E.	MP 396	Hadjar, Omar	MP 047
Gross, Michael L.	MP 105	Gull, Keith	MOA am 10:55	Hadjar, Omar	TP 025
Gross, Michael L.	MP 110	Gumaelius, Luke	TOC pm 04:10	Hagan, Nathan	ThP 489
Gross, Michael L.	TP 333	Gumaelius, Luke	WP 404	Hagan, Nathan A.	ThP 144
Gross, Michael L.	MP 341	Gumerov, Dmitry	WP 349	Hagan, Nathan A.	ThP 156
Gross, Michael L.	WP 384	Gunsalus, Robert	ThP 527	Hagan, Nathan A.	WP 021
Gross, Michael L.	TP 343	Gunsalus, Robert P.	TP 395	Hagan, Nathan A.	ThP 068
Gross, Michael L.	MP 064	Guo, Amy	TP 424	Hager, James W.	MOF pm 04:30
Gross, Michael L.	MOC pm 04:30	Guo, Cindy	ThP 437	Hagstrom, Stephanie A.	MP 521
Gross, Michael L.	MP 056	Guo, How-Ran	WP 494	Hahn, Jong-Sok	WP 183
Gross, Sonja	MP 289	Guo, How-Ran	MP 219	Hahner, Stephanie	TP 449
Grossenbacher, John	WOF am 08:35	Guo, Jian	MP 273	Hahner, Stephanie	WP 514
Grossenbacher, John	TP 026	Guo, Jian	WP 383	Hajivandi, Mahbod R.	ThP 534
Grossert, J. Stuart	WP 128	Guo, Jingzhong (Tim)	MP 245	Hajivandi, Mahbod R.	ThP 464
Grottemeyer, Juergen	ThP 032	Guo, Kevin Kun	WP 378	Hajivandi, Mahbod R.	TP 457
Grothe, Rob	ThP 266	Guo, Mingquan	ThP 352	Hajivandi, Mahbod R.	MP 436
Groves, Jerod	TP 081	Guo, Minjie	WP 527	Hajivandi, Mahbod R.	WOD pm 03:50
Grubb, Mary F.	WOE am 09:35	Guo, Minjie	MP 509	Hajkova, Dagmar	MP 549
Grundy, Joy J.	ThP 009	Guo, Tan	WP 033	Hakala, Kevin W.	TP 350
Gruters, Rob A.	ThOB am 08:55	Guo, Xu	MP 400	Hakansson, Kristina	ThP 422
Grym, Jakob	ThP 026	Guo, Xu	ThP 404	Hakansson, Kristina	MOB am 10:55
Grzonka, Zbigniew	ThP 473	Gupta, Madhulika B.	MP 432	Hakansson, Kristina	ThP 067
Gstaiger, Matthias	ThOA pm 04:10	Gupta, Nitin	MP 450	Hakansson, Kristina	WOB am 08:15
Gu, Haiwei	MP 299	Gupta, Nitin	ThP 248	Håkansson, Kristina	MP 381
Gu, Jiayin	MP 521	Gupta, Nitin	ThOB pm 02:50	Håkansson, Kristina	TP 194
Gu, Ming	ThP 360	Gupta, Ramesh C.	WP 343	Håkansson, Kristina	ThP 337
Gu, Ming	TP 260	Gupta, Renu	WP 334	Håkansson, Kristina	MP 122
Gu, Ming	ThP 232	Gupta, Saurub	ThP 437	Håkansson, Kristina	MP 123
Gu, Ming	WP 263	Gupta, Sayan	WOC pm 04:10	Håkansson, Kristina	WP 439
Gu, Sheng	WP 551	Gupte, Renuka	ThP 340	Halabalaki, Maria	TP 469
Gu, Xiaorong	MP 521	Guryca, Vilem	TP 144	Halden, Rolf U.	ThP 141
Gu, Xiaorong	MP 193	Gustavsson, Lena	ThP 095	Halder, Thomas M.	TP 318
Gu, Xiaorong	MP 530	Gustavsson, Lena	WP 069	Halder, Thomas M.	TP 324
Gu, Xiaorong	MP 531	Gut, Ivo G.	WP 061	Hale, John	TP 548
Gu, Ye	ThP 469	Gutierrez, Jesus A.	TOA am 08:15	Hale, John	TP 460
Gu, Ye	ThP 182	Gutstein, Howard B.	TP 290	Hale, John E.	TOA am 08:15
Gu, Zezong	MP 548	Guttman, Charles M.	TP 106	Hale, Laura	TP 548
Gu, Zhe-ming	TP 260	Guttman, Charles M.	MOG pm 05:10	Hale, Laura V.	TOA am 08:15
Gu, Zhenyu	WOC pm 02:50	Guy, Philippe A.	WP 362	Halevi, Lilach	MP 332
Guan, Bing	TP 199	Guy, Philippe Alexandre	ThP 379	Halfvarsson, J.	TP 563
Guan, Fuyu	MP 258	Guye, Patrick	WP 535	Halgand, Frederic	WOD pm 03:10
Guan, Fuyu	WP 196	Guza, Rebecca C.	TOC am 09:55	Halgand, Frederic, J.	WOA am 08:55
Guan, Fuyu	WP 337	Güzel, Coskun	WP 318	Halim, Vincentius A.	ThP 043
Guan, Fuyu	WP 245	Guziec, Frank	WP 447	Halket, John M.	MP 223
Guan, Shenheng	MP 448	Guziec, Lynn	WP 440	Hall, Doug	TP 110
Guan, Shenheng	TP 311	Guziec, Jr., Frank S.	WP 440	Hall, Stacy	TP 389
Guan, Shenheng	TP 150	Guzzetta, Andrew W.	ThP 176	Hall, Steve C.	WP 293
Guan, Ziqiang	MOC am 09:15	Guzzetta, Andrew W.	MP 445	Hall, Steven	MP 513
Guazzotti, Sergio	MOD am 09:35	Gvozdyak, Oksana	MP 318	Hall, Terence	MP 266
Gucek, Marjan	MP 540	Gvozdyak, Oksana	MP 324	Hall, Thomas	ThOB am 09:35
Guedes, Susana	WP 547	Gygi, Steven P.	MP 438	Hall, Thomas A.	WP 236
Gueneva-boucheva, Kristina K.	WP 173	Gygi, Steven P.	TOE pm 02:30	Hall, Jr., Henry	TP 110
Guérard, Florence	ThP 535	Ha, Mi Young	WP 037	Hallahan, Dennis E.	TP 289
Guérard, Florence	MP 516	Ha, Mi Young	TP 202	Haller, Patrick D.	ThP 536
Guérard, Florence	TOA pm 04:10	Ha, Sang Hoon	TP 502	Halligan, Brian D.	MP 546
Guérineau, Vincent	TOC pm 03:30	Haapala, Markus	TOF pm 04:10	Halmingh, Otto	ThP 205
Guerre, Olivia	MP 516	Haapala, Markus	WP 205	Halsall, H. Brian	ThP 280
Guerre, Olivia	TOA pm 04:10	Haapala, Markus	TP 011	Ham, Amy-Joan L.	MP 187
Guerre, Olivia	MP 172	Haas, George	WP 006	Hamaguchi, Satoshi	ThP 064
Guerre, Olivia	ThP 535	Haas, Wilhelm	TOE pm 02:30	Hambly, David	TP 489
Guerreiro, Nelson	MP 544	Haberkmorn, Mary J.	TP 451	Hambly, David	WOA am 09:35
Guerrero, Cortnie	MP 550	Habib Jiwan, Jean-Louis	TP 265	Hambly, David M.	ThP 280
Guertin, Steven	MP 544	Habicht, Steven	TOE pm 04:10	Hamburg, Daisy-Malloy	TP 327
Gueth, Robert	ThP 270	Habicht, Steven C.	TOG am 09:55	Hamelin, Elizabeth	ThP 158
Guilhaus, Michael	TP 523	Hachey, David L.	MP 314	Hammarskjold, Marie-Louise	WOA am 09:15
Guillet, Dominique	WP 558	Hachey, David L.	ThP 305	Hammond, Gareth	WP 563

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Hammond, Matthew	WP 209	Hardt, Markus	MP 513	Hawkins, Dough	TP 168
Hamprecht, Fred A.	WP 282	Hardy, Jonathan W.	ThP 311	Hawkins, Tim	WP 039
Hamprecht, Fred A.	WP 264	Hariri, Robert J.	TP 560	Hawkrigde, Adam	TOA pm 03:30
Hamprecht, Fred A.	WP 503	Harish, Reema	MP 401	Hawkrigde, Adam M.	TP 579
Hampton, Brian	ThP 180	Harman, David G.	MOC am 10:15	Hawkrigde, Adam M.	MP 020
Hampton, Christina Y.	MOE am 10:55	Harman, David G.	WP 109	Hawkrigde, Adam M.	MP 016
Hampton, Garrett	MP 510	Harmon, Bryan	WP 561	Hawkrigde, Adam M.	MP 065
Hamra, Julie	MP 335	Harms, Amy C.	WP 363	Hawkrigde, Adam M.	TP 373
Hamzavi, Mohammad	TP 249	Harms, Amy C.	WP 488	Hawkrigde, Adam M.	ThP 016
Hamzé, Kassem	TOC pm 03:30	Harper, Robert	WP 137	Hawkrigde, Adam M.	ThP 481
Hamzink, Martin R.J.	ThP 174	Harpin, Vanessa	ThOB am 09:35	Hayen, Heiko	TP 468
Han, Bingnan	ThOE pm 03:50	Harradine, Paul	TP 228	Hayes, Juaneka M.	WP 099
Han, Bomie	TOA am 08:15	Harris, William A.	WP 088	Hayes, Michael	ThP 508
Han, Bomie	TP 548	Harris, William A.	ThP 047	Hayes, Ronald L.	TP 443
Han, Chia-Li	MP 430	Harrison, Alex G.	TP 081	Hayete, Boris	TOE am 09:15
Han, David K.	WP 537	Harrison, Alex G.	TP 077	Haynes, Barton F.	TP 384
Han, Gang	WP 508	Harrison, Scott	WP 217	Haynes, Christopher A.	MOC am 09:35
Han, Hongling	MP 096	Harry, Emma L.	ThOE am 08:55	Hays, Faith	ThP 393
Han, Hongling	MOF pm 04:30	Hart, Courtenay	TP 374	Hays, Faith A.	ThP 499
Han, Jun	WP 373	Hart, Gerald W.	MP 389	Hayward, Clive	MP 406
Han, Mark	TP 441	Hart, Gerald W.	TP 282	Hayward, Lawrence J.	MP 476
Han, Mei	TP 424	Hart, Greald W.	TP 381	Hayward, Lawrence J.	MP 190
Han, Min-joon	TP 280	Hart, Sarah R.	MOA am 10:55	Hayward, Mark J.	MP 407
Han, QingPing	ThP 071	Hartley, James L.	TP 432	Hayward, Mark J.	ThP 071
Han, Sang Beom	ThP 350	Hartmer, Ralf	MOF pm 03:50	Hayward, Mark J.	ThP 219
Han, Sang Beom	ThP 348	Hartmer, Ralf	WP 085	Hayward, R. Larry	TP 270
Han, Victor K. M.	MP 432	Hartog, Alloysius F.	TP 353	Hazama, Hisanao	MP 074
Han, Xianlin	TP 181	Harvan, Don	MP 291	Hazama, Hisanao	MP 075
Han, Xuemei	TOB am 08:35	Harvey, David J.	WOB am 09:55	Hazen, Stanley L.	ThP 313
Hanash, Sam	WP 495	Hascall, Dan	ThP 160	Hazen, Stanley L.	WP 313
Hanash, Samir	TP 458	Hasegawa, Hideki	TP 034	Hazen, Stanley L.	TP 402
Hancock, James R.	ThP 152	Hasegawa, Hideki	ThP 052	Hazen, Terry C.	TP 546
Hancock, William S.	TP 417	Hasegawa, Hideki	TP 023	He, Haiyin	ThP 081
Hancock, William S.	ThP 469	Hasegawa, Hideki	WP 086	He, Huan	WP 497
Handayani, Peni P.	ThP 244	Haselmann, Kim F.	MP 129	He, Huan	WP 421
Hanke, Stefan	ThP 514	Hashemi, Sara	MP 114	He, Huan	TOB am 08:55
Hanke, Stefan	ThP 505	Hashi, Yuki	WP 121	He, Limin	ThOD pm 02:50
Hankemeier, Thomas	ThP 181	Hashimoto, Ryo	TP 386	He, Limin	WP 325
Hankin, Joseph A.	TOC pm 02:50	Hashimoto, Yuichiro	TP 023	He, Min	ThP 347
Hanley, Luke	WP 055	Hashimoto, Yuichiro	WP 086	He, Min	ThP 050
Hanley Jr, John	TP 219	Hashimoto, Yuichiro	TP 034	He, Tao	MP 553
Hanlon, David	ThP 469	Hashimoto, Yuichiro	ThP 052	He, Tao	TP 441
Hanneman, Andrew J. S.	MP 209	Hasin, Yuri	TOF am 09:15	He, Xiang	ThP 376
Hannis, James	ThOB am 09:35	Hasin, Yurii	MP 079	HE, YI	TP 083
Hanold, Karl A.	MP 153	Haspel, Howard C.	MP 254	He, Zengguo	ThP 079
Hansel, Armin	ThP 056	Hassanzadeh, Babak	ThP 460	He Nash, John	ThP 531
Hansen-Møller, Jens	ThP 109	Hatcher, Nathan	TP 583	Headley, John V.	ThOG am 09:15
Hansson, Jenny	TP 308	Hatcher, Nathan G.	MP 366	Headley, John V.	WP 223
Hanton, Scott D.	WP 049	Hatcher, Nathan G.	TP 290	Heaton, Amy	ThOC am 08:15
Hanus, Robert	MP 148	Hatcher, Patrick G.	TOG am 09:15	Heazlewood, Joshua L.	TP 321
Hanuszkiewicz, Anna	WP 418	Hatcher, Patrick G.	ThP 131	Hebeler, Romano	TP 302
Hanzlik, Robert P.	WP 338	Hatcher, Patrick G.	WOG pm 03:30	Hecht, Stephen S.	WP 492
Hao, Changtong	MP 384	Hatcher, Susan A.	ThP 131	Heck, Albert	TP 041
Hao, Chunhai	TP 557	Hatcher, Susan A.	WOG pm 03:30	Heck, Albert	WP 142
Hao, Chunyi	WP 500	Hathout, Yatrib	MP 528	Heck, Albert	MP 527
Hao, Gang	ThP 308	Hathout, Yatrib	TP 301	Heck, Albert	TP 498
Hao, Jia	WP 340	Hathout, Yatrib	ThP 456	Heck, Albert J.R.	TOD am 09:35
Hao, Zhiqi	TP 278	Hathout, Yatrib	MP 428	Heck, Albert J.R.	MOB am 10:15
Hao, Zhiqi	MP 184	Hathout, Yatrib	ThP 440	Heckendorf, Amos	ThP 180
Hao, Zhiqi	MP 194	Hatsis, Panos	MOD am 10:55	Hecker, Michael	ThP 518
Haoudi, Ali	ThP 437	Hatt, Hanns	MP 467	Hedrick, Jerry L.	TP 535
Happel, Maria	MP 091	Hatt, Hanns	ThP 414	Heeren, Ron	MP 069
Harada, Takahiro	ThP 106	Hatziieremia, Sofia	MP 421	Heeren, Ron M.A.	WP 073
Harada, Takahiro	MP 099	Hauge, Robert	MP 088	Heeren, Ron M.A.	TP 297
Harbourn, David E.	WP 550	Haukka, Matti	ThP 075	Hegedus, Dwayne D.	ThP 430
Harden, Leslie	MP 317	Hausberger, Peter	WP 041	Hegeman, Adrian D.	WP 488
Hardesty, William	TP 442	Havlicek, Vladimir	TP 414	Hegeman, Adrian D.	WP 363
Hardev, Veeral	WP 051	Hawke, Roy L.	TP 236	Heidbrink, Jenny L.	MP 553
Hardev, Veeral	MP 306	Hawkins, Aaron R.	WOF pm 03:30	Heideman, Warren	MP 573
Hardie, Darryl	ThP 503	Hawkins, Arie	WOC am 09:35	Heidler, Jochen	ThP 141

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Heidrich, Jason	TP 250	Hettich, Robert	ThOE pm 03:10	Hiser, Carrie	ThP 453
Heien, Michael	TP 286	Hettich, Robert	TP 398	Hitchcock, Alicia	WP 289
Heien, Michael L.	TP 583	Hettich, Robert	MP 431	Hitchcock, Alicia M.	ThP 282
Heilmann, Jens	WOG pm 02:30	Hettich, Robert	TP 275	Hites, Ronald A.	MOC pm 04:10
Heimark, Larry	MP 274	Hettich, Robert L.	WOC pm 03:50	Hitzel, Laure	MP 030
Heinegård, Dick	TP 551	Hettich, Robert L.	TP 529	Hitzel, Laure	ThP 355
Heinzle, Elmar	MP 575	Hettich, Robert L.	WP 425	Hixon, Mark S.	MP 227
Heitkemper, Douglas T.	ThP 149	Hettich, Robert L.	TP 531	Hnatyshyn, Serhiy	WP 369
Held, Jason	MP 404	Hettick, Justin	ThP 489	Hnatyshyn, Serhiy	MOD pm 04:10
Helfant, Laurence	TP 133	Hettick, Justin M.	MP 323	Ho, Jenny T.C.	WP 426
Helle, Norbert	WP 187	Hettick, Justin M.	WP 433	Ho, Joyce	WP 238
Heller, David N.	WP 562	Heublein, Denise M.	TOA pm 03:30	Ho, Yeunghaw	WP 401
Heller, David N.	Special Poster	Heumann, Klaus G.	WOG pm 02:30	Hoadley, Katherine A.	WP 490
Hencken, Kenneth R.	ThP 185	Hevko, John M.	TP 185	Hoang, Thanh H.	WP 444
Henderson, Fiona	MP 244	Heward, Chris	ThOC pm 03:30	Hober, Sophia	WOA pm 04:10
Hendrickson, Chris L.	MP 063	Heward, Chris	MP 269	Hobson, Robert	TP 101
Hendrickson, Christopher L.	MP 068	Hewel, Johannes	TP 160	Hochstrasser, Denis	TP 165
Hendrickson, Christopher L.	MP 136	Hewitt, Mark	ThP 124	Hochstrasser, Denis F.	ThP 222
Hendrickson, Christopher L.	MP 070	Heya, Manabu	MP 074	Hodges, Brittany D.M.	TP 078
Hendrickson, Christopher L.	MP 072	Heyerick, Arne	WP 387	Hodges, Brittany D.M.	TP 061
Hendrickson, Christopher L.	TOB am 08:55	Heymann, Michael	WP 504	Hodges, Brittany D.M.	MOF pm 04:30
Hendrickson, Christopher L.	TOG am 08:15	Hickey, Robert J.	WP 317	Hodgkin, Jonathan	MP 208
Hendrickson, Christopher L.	MP 067	Hickey, Robert J.	MOC am 10:55	Hodson, Caleb A.	MP 435
Hendrickson, Christopher L.	MP 066	Hickey, Robert J.	WP 303	Hoerth, Patrick	WP 510
Hendrickson, Christopher L.	MP 051	Hicks, Leslie M.	TP 367	Hoffman, Eric	ThP 440
Hendrickson, Christopher L.	MP 149	Hidalgo, August J.	MP 076	Hoffman, Eric P.	MP 428
Hendrickson, Ronald C.	WP 548	Hidding, Johannes	ThP 030	Hoffman, Eric P.	ThP 456
Hendrickson, Ronald C.	ThP 090	Hidy, Bruce	WP 174	Hoffman, Eric P.	MP 542
Hendrickson, Ronald C.	ThP 083	Hidy, Bruce	MP 160	Hoffman, Lisabeth L.	TP 371
Hendrickson, Ronald C.	MP 589	Hieftje, Gary M.	TOF pm 02:50	Hoffman, Lisabeth L.	WP 140
Hendriks, Gert	WP 168	Hieftje, Gary M.	WP 064	Hoffman, Norris W.	MP 118
Hendriks, Rob	ThP 468	Hieftje, Gary M.	WOG pm 04:10	Hoffman, Tim	TP 224
Hendriks, Rob	ThP 207	Hieftje, Gary M.	WOG pm 02:50	Hofgartner, Wolfgang T.	TP 560
Hendrix, Roger W.	MP 080	Hien, Tran T.	ThP 293	Hofstadler, Steven	ThOB am 09:35
Henion, Jack	TP 232	Higgins, LeeAnn	MP 233	Hofstadler, Steven	WP 236
Henion, Jack	WOE am 08:15	Higgins, LeeAnn	TP 554	Hofstadler, Steven A.	ThP 335
Henion, Jack	ThP 216	Higgs, Richard E.	TOA am 08:15	Hogan, Jason M.	ThP 050
Henion, Jack	WP 409	Higo, Daisuke	TP 009	Hogan, Susan	MP 335
Henion, Jack	TP 349	Hilderbrand, Amy E.	WP 135	Hoh, Eunha	WP 211
Hennessy, Thomas	TP 321	Hilger, Ryan T.	ThP 025	Hohmann, Laura	MP 152
Heppelmann, Carrie J.	ThP 541	Hilhorst, Martijn	WP 168	Højlund, Kurt	MP 517
Herbst, Allen	TP 454	Hill, Alastair	WP 392	Hokke, C.H.	TP 204
Hercules, David M.	TP 119	Hill, Herbert H.	ThOG pm 02:30	Hold, Karin M.	WP 335
Hercules, David M.	TP 126	Hill, Herbert H.	TP 058	Holder, Ryan	TP 051
Hernandez, Celine	ThP 222	Hill, Jennifer J.	TP 388	Holland, Barry	TOC pm 03:30
Hernandez, Helena	WP 154	Hill, Jennifer J.	ThP 383	Holland, James F.	ThP 177
Hernandez, Heriberto	WP 227	Hill, Karen	TOG pm 03:50	Holland, James F.	TP 413
Hernandez, Heriberto	ThP 148	Hill, Steve	WP 179	Holland, Richard J.	MP 005
Hernandez, Heriberto	WOF am 08:15	Hill, W. Adam	ThP 218	Hollyfield, Joe G.	MP 530
Hernandez-Soto, Heriberto	WP 133	Hill, Jr., Herbert H.	TP 048	Hollyfield, Joe G.	MP 531
Hernandez, Lidia	MP 466	Hillenkamp, Franz	WP 023	Holmes, Gale A.	TP 106
Hernandez, M.	MP 021	Hilton, Christopher	TP 007	Holmes, William E.	ThP 169
Hernandez, Patricia	ThOF am 09:15	Hilton, Christopher	TP 006	Holsclaw, Cynthia	MOC am 10:35
Hernández, Helena	WP 157	Hilton, Christopher K.	TP 048	Holst, Otto	WP 418
Herniman, Julie	ThP 345	Hilton, Gillian	TOD am 08:15	Honda, Hidetoshi	ThP 472
Hernychova, Lenka	TP 504	Hilton, Gillian R.	MP 005	Hong, Fei	MP 551
Hernychova, Lenka	TP 372	Hincapie, Marina	ThP 510	Hong, Haizheng	TOC am 08:55
Herring, Kristen D.	MP 452	Hinderer, Robert	TP 436	Hong, Haizheng	WP 450
Herrmann Favela, Kristin A.	ThOG pm 03:10	Hine, Takashi	MP 081	Hong, Shen-Han	WP 243
Hersberger, Katherine E.	TP 436	Hinerfeld, Douglas	MP 585	Hong, Teresa	MP 338
Hertz, Marshall	MP 520	Hintzen, Rogier Q.	TP 484	Hong, Teresa B.	ThOA pm 03:50
Hervey, IV, W. Judson	MP 423	Hirabayashi, Atsumu	ThP 172	Hong, Zhenning	MP 475
Herzog, Ronny	TP 179	Hirabayashi, Atsumu	TP 277	Hongo, Yayoi	MP 121
Hess, Sonja	WP 426	Hirabayashi, Atsumu	TP 023	Hood, Brian L.	ThP 461
Hess, Sonja	TP 472	Hirabayashi, Yoshio	WP 419	Hood, Leroy	TP 470
Hess, Sonja	ThP 018	Hirano, Ichiro	TP 252	Hooker, Brian S.	WP 428
Hess, Sonja	ThP 399	Hirano, Ichiro	MP 081	Hoopmann, Michael R.	TOA pm 02:50
Hesso, Antti	TP 414	Hirano, Takashi	ThP 472	Hooser, Stephen B.	MP 514
Hetsco, Lucy V.	MP 155	Hirschmann, Jasmin	WP 435	Hop, Cornelis	TOD pm 02:30
Hettich, R.L.	TP 563	Hisaeda, Yoshio	TP 009	Hopf, Amber	WP 207

Program Code: M, T, W, Th = Day O = Oral A, B, C, D, E, F, G = Session am = Morning, pm = Afternoon Time  
M, T, W, Th = Day P = Poster Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Hopf, Amber	WP 375	Hua, Yimin	WP 239	Hughes, Chris	ThP 285
Hopf, Amber S	ThP 380	Huang, Bill	TP 330	Hughes, Christopher	TP 369
Hopfgartner, Gerard	ThP 289	Huang, Fan	ThP 019	Hughes, Michael F.	ThP 128
Hopfgartner, Gerard	MP 154	Huang, Hai	WOG am 09:35	Hughes, Minerva A.	WP 430
Hopfgartner, Gérard	MP 163	Huang, Hsin-Hung	WP 482	Hughes, Nicola	ThP 306
Hopfgartner, Gérard	ThOD am 08:35	Huang, Hsin-Hung	TP 316	Hughes, Richard J.	WP 339
Hopfgartner, Gérard	MP 257	Huang, Hsin-Hung	WP 534	Hughes, Robert E.	ThP 540
Hopfgartner, Gérard	WOB pm 04:10	Huang, Hua	TP 154	Hughey, Christine A.	MP 150
Hopkinson, Alan C.	WOG am 08:15	Huang, Hua	MP 180	Hughey, Christine A.	ThP 341
Hopkinson, Alan C.	TP 086	Huang, Hua	TP 363	Huhmer, Andreas	MP 194
Horai, Hisayuki	ThP 167	Huang, Huei-luen	MP 470	Hühmer, Andreas F. R.	TP 560
Horie, Kanta	MP 166	Huang, Jane	TP 233	Hühmer, Andreas F.R.	TP 278
Horn, David	MP 571	Huang, Janet	WP 456	Hühmer, Andreas FR	MP 184
Horn, David M.	TP 420	Huang, Jennifer	MP 138	Hui, Joseph P. M.	ThP 327
Horn, David M.	TP 465	Huang, Jennifer	MP 215	Hulbert, A. J.	ThP 324
Horn, David M.	ThP 417	Huang, Judy C.	ThP 194	Hulet, Stanley	MP 353
Horn, Marc J.	MP 564	Huang, Lan	MP 550	Hulet, Stanley	MP 351
Horne, Patrick	TP 463	Huang, Lan	ThP 263	Hulth, Stefan	TP 540
Horning, Stevan	MOF pm 04:50	Huang, Lan	MP 561	Hummel, Jan	WP 353
Horning, Stevan R.	WP 081	Huang, Lei	MP 585	Humpfer, Eberhard	MP 285
Hornshaw, Martin	TOE pm 03:10	Huang, Liepin	WP 004	Humphery-smith, Ian	ThP 265
Hornung, Daniela	ThOB am 09:55	Huang, Lihua	TP 479	Humphreys, W. Griffith	ThOD am 08:55
Hornung, Michael M.	MP 233	Huang, Li-Shing	ThP 041	Humphreys, William G.	TOD pm 04:10
Horvath, Christopher R.	ThP 218	Huang, Min	WP 567	Humphries, jamie	WP 238
Hosia, Walteri	TP 461	Huang, Min-Zong	ThP 014	Humter, Christie	MP 510
Hossain, Mahmud	WP 441	Huang, Min-Zong	WP 079	Hung, Chien-Wen	ThP 428
Hotamisliligil, Gökhan	WP 507	Huang, Min-Zong	TP 008	Hung, Chien-Wen	MP 402
Hoteling, Andrew	TP 108	Huang, Renee	ThP 197	Hung, Shao-Ching	MP 474
Hotta, Yudai	WP 424	Huang, See-Chang	WP 465	Hunt, Donald F.	WOA am 09:15
Hou, Liming	WOC am 08:55	Huang, Sequin	TP 154	Hunt, Donald F.	ThP 429
Hou, Liming	TP 365	Huang, Sheng-Yu	ThP 433	Hunt, Donald F.	ThP 406
Houel, Stephane	ThP 410	Huang, Szu-Chiao	TP 520	Hunt, Donald F.	MP 458
Houel, Stephane	WP 521	Huang, Teng-yi	ThP 328	Hunt, Donald F.	TP 360
Houjou, Toshiaki	TP 183	Huang, Tianmin	TP 537	Hunt, Donald F.	MP 340
Houk, R. S.	WP 366	Huang, Wotang	TP 253	Hunt, Tamela	TP 293
Houk, R.S.	WP 097	Huang, Xiaodong	MP 299	Hunter, Christie	ThP 404
Houk, R.S.	ThP 046	Huang, Xiaodong	ThP 173	Hunter, Christie	MOA pm 05:10
Houle, Benoit	WP 520	Huang, Xinzhao	TP 037	Hunter, Christie L.	ThP 074
Houle, Benoit	MP 239	Huang, Ying	TP 368	Hunter, Christie L.	ThP 252
Houle, Benoit	WP 513	Huang, Yingying	TP 311	Hunter, Christy L.	WOA pm 03:30
Houliston, R. Scott	WP 291	Huang, Yingying	TP 385	Hunter, Joanna	MP 406
Houseman, Andres	TOA pm 03:50	Huang, Yiqun	TP 052	Hunzinger, Christian	TP 394
Houtkooper, Riekelt	MP 224	Huang, Yongli	ThP 234	Hupp, Ted	TP 270
Howdle, Mark D.	ThOE am 08:55	Huang, Zhenyu	MOG am 10:55	Hurley, James B.	WP 472
Howe, Anita	TP 438	Huang, Zhenyu	TP 312	Hurst, Gregory B.	WP 428
Howitt, Rob	WP 232	Huang, Zhenyu	WP 544	Hurst, Gregory B.	MP 423
Hoyer-Hansen, Maria	WP 468	Huang, Zhenyu	ThP 446	Hurst, Harrell E.	WP 343
Hrudey, Steve	TP 097	Huart, Jean-Jacques	MP 516	Hurst, W. J.	WOE am 09:55
Hsieh, Amy	MP 390	Hubbard, Simon	TP 159	Huset, Carin A.	ThP 126
Hsieh, Hsin-Yu	TP 517	Hubbard, Simon J.	MP 196	Hussain, Saleh	ThP 193
Hsieh, Hui-Chu	WP 465	Hubbard, Simon J.	MOA am 10:55	Hussain, Saleh	WP 181
Hsieh, Yi-ju	WP 016	Hubbard, Tim	MP 174	Hussain, Sazzad	WP 559
Hsieh, Yunsheng	TP 231	Hubbard, Walter C.	ThP 309	Huttlin, Edward L.	WP 488
Hsieh, Yunsheng	ThP 096	Huber, Christian G.	MP 575	Huttlin, Edward L.	WP 363
Hsu, Fong-Fu	ThP 242	Hubner, Nina	WP 474	Huynh, Tai	TP 363
Hsu, Fong-Fu	MOC am 09:55	Hübner, Göran	WP 418	Huysentruyt, Leanne	MP 211
Hsu, Hsu-Ching	ThOD am 09:55	Huck, Christian	WP 041	Hwang, Esther S.	TP 256
Hsu, Jue-liang	ThP 507	Huddleston, Michael	ThP 500	Hwang, Huey-Min	ThP 140
Hsu, Kevin	MP 247	Huddleston, Michael J.	MP 440	Hwang, Hyun-Ho	ThP 395
Hsu, Nien-Yeen	TP 211	Hudson, Emily	WP 250	Hwang, Sun-Il	WP 537
Hsu, Wei-Yi	MP 217	Hudson, James	TOG am 08:55	Hyde, John	WP 473
Hsu, Wen-Chen	TP 233	Hudson, William	ThP 212	Hyland, Katherine C.	ThP 126
Hu, An	WOF pm 03:10	Huff, Hollie	TP 397	Hyun, JongSoo	MP 536
Hu, An	WP 095	Hufnagel, Peter	WP 514	Hyung, Suk-Joon	ThOE am 09:55
Hu, Jun	TP 561	Hughes, Chris	TP 493	Hyung, Suk-Joon	TP 325
Hu, Jun	ThP 511	Hughes, Chris	MOB pm 04:10	Iacob, Roxana E.	MP 496
Hu, Ling-Jia	TP 555	Hughes, Chris	TP 349	Ian, Stewart	TP 305
Hu, Qizhi	WP 083	Hughes, Chris	ThP 284	Ibáñez, Alfredo J.	ThP 043
Hu, Shen	WP 487	Hughes, Chris	ThP 076	Ibrahim, Yehia	WP 082
Hu, Steven X	ThOD pm 03:10	Hughes, Chris	MP 532	Ichiyanagi, Yuko	WP 068

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Iden, Charles R.	MP 346	Ito, Hiromi	ThP 275	Jakonen, Minna	ThP 075
Ifa, Demian R.	WP 075	Ito, Hiromi	TP 376	Jakubowski, E. Michael	MP 353
Ifa, Demian R.	TP 040	Ito, James	MP 338	Jakubowski, Edward	MP 351
Ifa, Demian R.	ThP 099	Ito, James I.	ThOA pm 03:50	Jakubowski, Edward M.	MP 234
Ifa, Demian R.	TOC pm 04:10	Ito, Shinya	WP 419	Jalali, Kayvon	MP 251
Igarashi, Yasuyuki	ThP 431	Ito, Yuki	TP 277	Jalili, Pegah	MP 388
Igarashi, Yasuyuki	MP 433	Ivancic, Melanie M.	ThP 280	James, Andrew	WP 063
Iglesias, Amadeu H.	TP 355	Ivanov, Alexander R.	WP 507	James, Christopher	ThP 371
Iglesias, Amadeu H.	WOC am 09:15	Ivanov, Alexander R.	TOA pm 03:50	James, Christopher	WP 185
Igwe, Elena	MOE pm 05:10	Ivanov, Stan	MP 042	James, David	TP 523
Ihle, Eva	MP 386	Ives, Sian	TP 226	James, Ginny	MP 275
Iida, Junko	MP 081	Ivleva, Vera B.	WP 410	James, Ginny B.	TP 242
Iijima, Yoko	WP 374	Ivosev, Gordana	WP 284	Jamin, Emilien L.	ThP 330
Ikeda, Kazutaka	TP 183	Ivosev, Gordana	ThP 170	Janfelt, Christian	WP 227
Ikegami, Tohru	MP 166	Iwamoto, Shinichi	MP 099	Janis, Janne	ThP 075
Ikehata, Keisuke	WP 338	Iwamoto, Shinichi	WP 087	Janiszewski, John S.	ThP 171
Ikenaka, Kazuhiro	TP 386	Iyer, Rashi	WP 466	Jankiewicz, Bartlomiej J.	TP 063
Ikryannikova, Larisa N.	ThOC pm 02:50	Iyer, Srinivas	WP 466	Jankovicova, Barbora	TP 504
Il'ina, Elena N.	ThOC pm 02:50	Izgarian, Nick	WP 062	Jankowska-Stephens, Ewa	ThP 520
Ilag, Leopold	WP 512	Izumi, Hideaki	ThP 106	Janoski, Jonathan	TP 124
Ilichenko, Sergei A.	MP 525	Izydorczyk, Marta	ThP 121	Janotka, Erica	MP 323
Il'ina, Elena	MP 324	Jaattela, Marja	WP 468	Jansson, Daniel K.	ThP 168
Illies, Andreas	WP 033	Jabado, Omar	MP 326	Jansson, J.	TP 563
Ilonen, Jorma	TP 461	Jabbour, Rabih E.	MP 329	Jansz, Graham	MOE pm 05:10
Iltchencko, Serguei	MP 506	Jabbour, Rabih E.	WP 427	Jardin-Mathé, Olivia	WP 059
Il'yasova, Dora	WOD am 08:55	Jabs, Wolfgang	WP 543	Jardin-Mathé, Olivia	MOF am 10:35
Imanishi, Susumu Y.	TP 524	Jackson, Angela	ThP 513	Jarmalavicius, Saulius	MP 473
Imanishi, Susumu Y.	TP 526	Jackson, Angela	WP 072	Jarrell, Joseph A.	MP 004
Imperiali, Barbara	WP 296	Jackson, Anthony T.	MP 005	Jarrold, Martin F.	MP 045
Impey, Gary	MP 243	Jackson, Ayanna U.	MP 012	Jarrold, Martin F.	ThP 022
Impey, Gary	WP 372	Jackson, Glen	ThP 049	Jarvis, Michael J. Y.	MP 114
Inagaki, Fuyuhiko	TP 476	Jackson, Glen P.	MOF pm 04:10	Jarvis, Michael J. Y.	TP 068
Infusini, Giuseppe	WOB am 08:55	Jackson, Karl E.	ThOG pm 02:50	Jaskolla, Thorsten	WP 025
Infusini, Giuseppe	MP 483	Jackson, Karl E.	TP 035	Jaskolla, Thorsten	WP 042
Ingendoh, A.	TP 204	Jackson, Lewis C.	TP 411	Jastrzebska, Beata	WOC pm 04:10
Ingendoh, Arnd	WOB am 09:15	Jackson, Robert H.	MP 087	Jauhiainen, Marjo Annika	MP 286
Ingolfsson, Oddur	WOG am 08:55	Jackson, Scott	TOF pm 03:50	Javaheri, Hassan	TP 017
Ingram, Richard	TP 390	Jackson, Shelley	WP 411	Javahery, Gholamreza	MP 038
Innis, Robert B.	WP 389	Jackson, Shelley N.	MOE pm 03:50	Javahery, Gholamreza	TP 019
Inohana, Yusuke	MP 081	Jackson, Shelley N.	TP 054	Jayachandran, Hemalatha	WP 533
Inohana, Yusuke	TP 252	Jackson, Shelley N.	WP 160	Jayaratra, Husantha	MP 313
Inoue, Koichi	MP 417	Jackson, Shelley N.	MOF am 09:55	Jayaratra, Husantha G.	MP 304
Insel, Paul A.	TP 525	Jackson, Tony	TP 120	Jayasuriya, N. Naomi?	ThP 536
Inverardi, Bruno	ThP 084	Jackson Lepage, Carmela R.	ThP 152	Jayawickramarajah, Janarthanan	WP 449
Ioannou, Yiannis A.	WP 467	Jacob, Naduparambil K.	MOB am 09:55	Jazayeri, Saloumeh	ThP 295
Ip, Charlotte C. Yu	MP 511	Jacobs, Jon M.	TP 534	Jean-Claude, Bertrand	WP 520
Ireton, Renee	TP 458	Jacobs, Peter L.	WP 379	Jeanville, Patrick	ThP 007
Irth, Hubertus	WP 247	Jacobsen, Richard	WOC am 09:55	Jecklin, Matthias	WP 115
Irungu, Janet	TP 384	Jacques, Mario	ThP 531	Jecklin, Matthias	ThOC am 09:15
Irwin, Becky	ThP 263	Jacquilleot, Sandrine	MP 342	Jecklin, Matthias C.	WP 152
Isa, Kimio	WP 126	Jacquot, Yves	MP 102	Jeffery, Erin D.	ThP 429
Isaac, Issa	ThP 530	Jaffe, Jacob D.	MOB am 09:35	Jelinek, Christine	MP 583
Isaacs, Jennifer S.	ThP 485	Jaffrey, Samie R.	MP 576	Jellen, Emily	WP 146
Isailovic, Dragan	ThP 278	Jagerdeo, Eshwar	MP 348	Jen, Connie	MOB am 10:35
Isailovic, Dragan	ThP 286	Jagerdeo, Eshwar	ThP 206	Jeng, Jingyueh	TP 010
Isailovic, Dragan	MOG pm 04:30	Jagtap, Pratik D.	MP 426	Jenkins, Rand	MP 160
Ishihama, Yasushi	MP 443	Jahn, Sabrina	MP 532	Jenkins, Rand	ThP 195
Ishihama, Yasushi	MP 433	Jain, Manu	WP 556	Jenkins, Rand	WP 174
Ishihama, Yasushi	ThP 431	Jain, Mohit R.	ThP 511	Jenkins*, Kelly	ThP 377
Ishihara, Morio	WP 067	Jain, Mohit R.	TP 561	Jennette, Charles J.	MP 335
Ishizuka, Seiichi	TP 218	Jain, Rishi	WP 152	Jennifer, Busby	TP 305
Issac, Issa	MP 503	Jaitly, Deep	TP 055	Jennings, Jennifer L.	ThP 471
Issaq, Elias J.	WP 358	Jaitly, Gagandeep	TP 322	Jennings, Laura	MP 477
Issaq, Haleem J.	TP 533	Jaitly, Navdeep	MP 450	Jensen, Dwayne J.	MP 504
Issaq, Haleem J.	TOB pm 03:30	Jaitly, Navdeep	TP 322	Jensen, O N	ThP 413
Issaq, Haleem J.	MP 469	Jaitly, Navdeep	WP 280	Jensen, Ole N.	ThOA am 09:35
Issaq, Haleem J.	ThP 466	Jaitly, Navdeep	WP 360	Jensen, Ole N.	ThP 409
Issaq, Haleem J.	WP 358	Jaitly, NavDeep	WP 510	Jensen, Ole N.	ThOA am 08:15
Issaq, Haleem J.	ThP 424	Jaitly, Navdeep	WP 533	Jensen, Ole N.	MP 129
Ito, Hiroki	MP 204	Jakobsen, Lis	MP 557	Jensen, Ole Nørregaard	ThP 076

Program Code: M, T, W, Th = Day O = Oral A, B, C, D, E, F, G = Session am = Morning, pm = Afternoon Time  
M, T, W, Th = Day P = Poster Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Jensen, Søren S.	MP 442	Jolliffe, Charles	MP 038	Junot, Christophe	WP 370
Jenster, Guido	WP 486	Jolliffe, Charles	TP 019	Junqueira, Magno	WP 186
Jesch, Christian	TOF am 08:55	Jones, A. Daniel	TP 215	Just, Ulrich	MOG pm 04:10
Jespersen, Hans	TP 170	Jones, A. Daniel	TP 213	Justes, Dina	WP 006
Jessing, Kevin W.	WP 328	Jones, A. Daniel	WP 356	Justes, Dina R.	WP 010
Jestel, E. Alex	ThP 151	Jones, A. Daniel	TP 220	Justino, Jorge	WP 408
Jester, Edward L.E.	WP 386	Jones, A. Daniel	MP 284	Juszczyk, Paulina	ThP 473
Jewell, William T.	MP 356	Jones, Alun	TP 549	Juszczyk, Paulina	ThP 475
Jez, Joseph M.	TP 367	Jones, Christopher M.	TOD am 09:15	Juyal, Priyanka	MP 149
Ji, Allena J.	MP 307	Jones, Christopher M.	WP 148	K Wang, Kevin K.	ThP 530
Ji, Cheng Jie	WP 378	Jones, David	ThP 212	Kabakoff, Jonathan	MP 548
Ji, Chengjie	TP 304	Jones, David S.	ThP 309	Kachman, Maureen T.	MP 426
Ji, Chengjie	TOA am 08:55	Jones, Dean P.	WP 350	Kachman, Maureen T.	MP 170
Ji, Hong	WP 084	Jones, E.B.	ThP 171	Kaddis, Catherine S.	TP 332
Ji, Manping	WP 329	Jones, Elliot	ThP 130	Kadkhodayan*, Miryam	ThP 196
Ji, Manping	WP 253	Jones, Elliott	MP 280	Kadkhodayan*, Miryam	ThOD pm 03:50
Ji, Qin C.	TP 237	Jones, Elliott	TP 225	Kagan, Natasha	WP 331
Ji, Tao	WP 338	Jones, Elliott	WP 340	Kagawa, Shuji	TP 123
Jia, Xuming	WP 339	Jones, Elliott	MP 248	Kagel, John R.	WP 333
Jian, Wenyong	TP 248	Jones, Elliott B.	TOD pm 03:30	Kagel, John R.	ThP 198
Jiang, Gongyu	WP 095	Jones, Jace W.	WP 416	Kaiser, Nathan	MP 071
Jiang, Gongyu	ThP 045	Jones, Jay	TP 424	Kaiser, Peter	MP 550
Jiang, Gong-Yu	WOF pm 03:10	Jones, Jeff	MP 550	Kajjout, Mohammed	ThP 442
Jiang, Haitao	TP 417	Jones, Jeffrey J.	ThP 263	Kajjout, Mohammed	ThP 037
Jiang, Heng	MP 563	Jones, Kevin	WP 515	Kajjout, Mohammed	ThP 442
Jiang, Honghai	MP 483	Jones, Lisa M.	TP 357	Kakahana, Masatoshi	ThP 472
Jiang, Honghai	WOA am 08:15	Jones, Michael	TP 261	Kalapothakis, Jason	WP 455
Jiang, Honghai	MP 567	Jones, Patrick R.	MP 007	Kalb, Suzanne R.	MP 198
Jiang, Jian	WP 490	Jones, Patrick R.	MP 108	Kalb, Suzanne R.	MOA am 10:15
Jiang, Jian	ThP 371	Jones, Patrick R.	TP 140	Kalb, Suzanne R.	TOG pm 03:50
JIANG, LIHUA	MP 449	Jones, Richard C.	WP 499	Kalb, Suzanne R.	MP 321
Jiang, Lihua	ThOF am 09:55	Jones, Richard C.	TP 482	Kalgutkar, Amit	TP 229
Jiang, Xiangyu	ThP 203	Jones, Sara	TP 243	Kalisiak, Ewa	WP 423
Jiang, Xiangyu	MP 261	Jones, Sara L.	TP 244	Kalisiak, Ewa	WP 434
Jiang, Xiangyu	WP 320	Jong, Ad P.J.M. de	ThP 174	Kalisiak, Jarek	WP 434
Jiang, Xiangyu	TP 237	Jonscher, Karen R.	TP 555	Kalisiak, Jaroslaw	WP 423
Jiang, Xuntian	TP 181	Jordan, Bryen A.	MP 569	Kalkum, Markus	MP 338
Jiang, Yan	TP 407	Jordan, Gregor	ThP 202	Kalkum, Markus	ThOA pm 03:50
Jiang, Yan	MP 475	Jordan, Steve	ThP 210	Käll, Lukas	WP 269
Jiang, Ying	ThP 377	Jordan, Steve	ThP 201	Kalli, Anastasia	MP 122
Jiang, Zhiping	MP 307	Jordan, Steve	ThP 189	Kallman, Neil J.	TP 266
Jin, Liping	MP 251	Jörnvall, Hans	WP 512	Kaltashov, Igor A.	ThP 279
Jin, Xiaoying	TP 423	Jorin Novo, Jesús	ThP 272	Kaltashov, Igor A.	MP 490
Jin, Zhaoyan	TP 460	Joseloff, Elizabeth G.	MP 553	Kaltashov, Igor A.	TP 335
Jin, Zhaoyan	TOA am 08:15	Joseph, Brown	TP 305	Kaltashov, Igor A.	MP 498
Jin, Zhicheng	TP 071	Josephs, Jonathan L.	WOF am 09:35	Kaltashov, Igor A.	WOC pm 03:10
Jing, Li	MP 053	Joshi, Elizabeth M.	ThOD am 08:15	Kamal, J.K. Amisha	ThOE pm 02:30
Jing, Linhong	TP 412	Joshi, Madhumita	WP 519	Kamal, J.K. Amisha	TP 347
Jing, Linhong	WP 554	Joshi, Manishkumar D.	WP 406	Kamel, Amin	ThP 007
Jirawatnotai, Siwanon	WP 528	Joshi, Vivek	ThP 202	Kameyama, Akihiko	ThP 275
Jo, Cheon-Ho	TP 100	Jovanovic, Bojana	ThP 471	Kameyama, Akihiko	TP 376
Jo, Kyubong	TP 286	Joyce, Karen E.	TP 059	Kaminker, Patrick	TP 441
Joachimik, Marcin	TP 546	Joyce, Karen E.	WP 135	Kaminski, Naftali	WP 491
Jobson, Andrew G.	ThOA am 08:35	Joyner, Dominique C.	TP 546	Kamiya, Kiriko	WP 267
Jobst, Karl J.	TP 104	J-Rivera, Lauren Elizabeth	ThP 007	Kammerer, Bernd	WP 390
Jockusch, Rebecca	MP 092	Jue, April L.	MP 126	Kan, Steven Z.	TP 109
Jockusch, Rebecca A.	ThOG pm 03:50	Juenger, Martin	ThOA am 08:55	Kanaya, Shigehiko	WP 374
Joenväärä, Sakari	ThP 267	Julian, Bruce A.	TP 389	Kane, Michael?	TP 171
Joenväärä, Sakari	ThP 257	Julian, Ryan R.	TP 044	Kaneshiro, Edna S.	WP 413
Johann, Donald J.	TP 158	Julian, Ryan R.	WOC am 08:15	Kaneski, Christine	MP 428
Johann, Donald J.	MP 469	Julian, Ryan R.	MP 106	Kang, Bin	WP 500
Johnson, Hannah	WP 505	Julian, Toby	MP 275	Kang, Gum YONG	ThP 415
Johnson, Jeffrey	MOA pm 04:10	Jun, P. K.	TP 113	Kang, Pilsoo	TP 203
Johnson, Jennifer M.	WP 350	Jung, Eun Ha	ThP 348	Kang, Pilsoo	MP 206
Johnson, Jodie V.	TP 216	Jung, Gisela	MP 165	Kang, Pilsoo	WP 303
Johnson, Joseph L.	WP 251	Jung, Hye Ryung	ThP 076	Kang, Pilsoo	TP 193
Johnson, Kimberly	TP 453	Jung, Klaus	WP 555	Kang, Sam Sik	ThP 350
Johnson, Pete L.	ThP 137	Junga, Hike	ThP 203	Kang, Sebyung	TP 339
Johnson, Pete L.	TP 146	Junghanns, Kay T.	TP 490	Kang, Sebyung	MP 491
Johnston, Murray	ThP 134	Junot, Christophe	WP 355	Kang, Sebyung	TP 357

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Kanno, Nozomu	ThP 364	Kawasaki, Hideya	TP 114	Kenttämaa, Hilikka I.	TP 063
Kaplan, Desmond A.	MOF pm 03:50	Kay, Richard	ThP 259	Kerfoot, Sandra	MP 479
Kaplan, Kim	TP 058	Kayagaki, Nobuhiko	TP 279	Kermode, Allison R.	ThP 430
Kapoor, Veena	MP 469	Kazandjian, Alex	TP 239	Kern, Susanne	MP 082
Kapoor, Vishal	MP 326	Kazarian, Konstantin	TP 340	Kern, Timothy S.	TP 562
Kappock, T. Joseph	MP 479	Kazacic, Saša	MP 493	Kernan, Jeff	WP 565
Kapron, James	ThP 300	Ke, Song-Hua	ThP 464	Kerney, Paul	MP 406
Karabacak, Murat N.	MP 190	Ke, Yuyong	TP 086	Kerns, Edward	WP 331
Karani, David	MP 270	Ke, Yuyong	WOG am 08:15	Kero, Frank A.	MP 230
Karas, Michael	WP 042	Keane, John	WP 552	Kerr, Thomas J.	WP 104
Karas, Michael	WP 025	Keasling, Jay	WP 371	Kersten, Michael	TP 324
Karas, Michael	ThOC am 09:35	Keasling, Jay	MP 331	Kertes, Vilmos	ThOE pm 03:10
Karger, Barry L.	ThP 510	Keasling, Jay	TP 306	Kertes, Vilmos	WP 005
Karger, Barry L.	ThP 182	Keasling, Jay D.	MP 320	Kertes, Vilmos	WP 014
Karger, Barry L.	TP 278	Keasling, Jay D.	TP 546	Kerwin, Sean	WP 447
Karger, Barry L.	TP 417	Keasling, Jay D.	WP 429	Keshishian, Hasmik	TOB pm 03:10
Karger, Barry L.	ThP 469	Keerthi, Kripa	ThP 482	Keshishian, Hasmik	MP 522
Karhu, Laura	TP 223	Keever, Jeff	MP 345	Kesimer, Mehmet	ThP 538
Karikko, Mika-Matti	WP 205	Kehasse, Amanuel Y.	ThP 035	Kessler, Irina	ThP 396
Kariya, Yutaka	TP 197	Keidel, Eva-Maria	TP 318	Kessner, Darren	ThP 266
Karlsen, Allan E.	WP 530	Keidel, Eva-Maria	TP 324	Ketola, Raimo	TOF pm 04:10
Karlsson, Anders	ThP 452	Keil, Adam	TOG pm 02:30	Ketola, Raimo	MP 205
Karlsson, Anders	TP 540	Keil, Adam	WOF am 08:15	Ketola, Raimo	TP 011
Karlsson, Roger	TP 540	Keil, Adam	WOF am 08:35	Ketola, Raimo A.	WP 098
Karnoup, Anton	ThP 384	Keil, Adam	TP 026	Ketola, Raimo A.	TP 020
Karnoup, Anton S.	MP 474	Keil, Adam D.	WP 227	Ketola, Raimo A.	TP 223
Karst, Uwe	WP 381	Keil, Adam D.	ThP 148	Ketola, Raimo A.	WP 203
Karuso, Peter H.	TP 478	Keitany, Gladys	MP 393	Keukeleire, Denis De	WP 387
Kasper, Piotr	TP 353	Keith, Jason	MP 132	Kevin, Colizza	ThP 007
Kasper, Susan	TP 293	Kelleher, Kerry	ThP 423	Keykhosravi, Mandana	WP 561
Kass, Steven R.	WP 127	Kelleher, Neil L.	WP 394	Khadang, Ardeshir	TP 250
Kass, Steven R.	TP 065	Kelleher, Neil L.	MP 559	Khairallah, George N.	TP 072
Kassel, Daniel B.	MOD am 10:15	Kelleher, Neil L.	WOA am 08:35	Khan, Javed	TP 300
Kassel, Daniel B.	ThP 160	Kelleher, Neil L.	WP 400	Khanna, Rajesh	ThP 127
Kassel, Daniel B.	MP 227	Kelleher, Neil L.	TOB am 09:35	Kharybin, Oleg N.	MP 419
Kassel, Daniel B.	ThP 220	Kelleher, Neil L.	MOB am 09:15	Kharybin, Oleg N.	MP 060
Kassel, Daniel B.	ThP 215	Kelleher, Neil L.	ThOF am 09:55	Khasanov, Usman	MP 025
Kassel, Daniel B.	ThP 221	Kelleher, Neil L.	MP 124	Khasanov-, Usman	TP 031
Kassie, Fekadu	WP 492	Keller, Andrew D.	WP 547	Khatib-Shahidi, Sheerin	TP 288
Kast, Juergen	MOB pm 03:30	Kellermann, Josef	TP 318	Khatib-Shahidi, Sheerin	TP 289
Kast, Juergen	WP 276	Kellermann, Josef	TP 324	Kheterpal, Indu	TP 558
Katajamaa, Mikko	TP 461	Kelley, James A.	ThP 354	Khitrov, Gregory A.	MP 118
Katajamaa, Mikko K.	TP 526	Kelley, Mark C.	TP 442	Khoo, Kay-Hooi	TP 517
Katayama, Hiroyuki	TP 458	Kellmann, Markus	MP 052	Khoo, Lester	MP 352
Katenhusen, Richard	TP 451	Kellmann, Markus	MP 394	Kieffer-Jaquinod, Sylvie	TP 144
Katner, Simon	ThP 099	Kellmann, Markus	MP 368	Kielytky, Jason W.	MP 123
Katner, Simon D.	MP 240	Kelly, John	ThP 383	Kilgore, Jacob T.	WP 129
Kato, Harubumi	ThP 472	Kelly, John F.	TP 388	Killeen, Kevin	WP 518
Kato, Shuji	WP 123	Kelly, John F.	TP 385	Killeen, Kevin	ThOB am 08:15
Kato, Yukinari	TP 376	Kelly, Ryan T.	MOE am 09:55	Killeen, Kevin P.	TP 135
Kato Kaneko, Mika	TP 376	Kelsey, Peter L.	ThP 011	Killilea, David W.	ThP 015
Katona, Maria	WP 017	Kemp, Eric	TP 573	Kilpatrick, Lisa	TP 174
Katselis, Georgios S.	MP 334	Kempf, Juergen	MP 226	Kilpatrick, Lisa	ThOB pm 03:30
Katsila, Theodora	MP 421	Kempf, Tore	TOB pm 03:50	Kilpatrick, Lisa E.	TP 162
Katta, Viswanatham	TP 422	Kenne, Kerstin	WP 069	Kilpatrick, Lisa E.	TP 153
Katta, Viswanatham	TP 427	Kenne, Kerstin	ThP 095	Kilroy, Gail	TP 558
Katta, Viswanatham	TP 418	Kennedy, David S.	MOF pm 05:10	Kilty, Renee	TP 312
Katta, Viswanatham	TP 053	Kennedy, Robert T.	MP 293	Kilty, Renee	MOG am 10:55
Kattner, Gerhard	TP 102	Kennel, Stephen J.	WP 428	Kim, Do-Gyun	TOG am 08:15
Katz, Jonathan	ThP 266	Kenny, Daniel J.	MP 073	Kim, Do-Gyun	MP 149
Katze, Michael G.	WP 553	Kensler, Thomas W.	TOA am 08:35	Kim, Hee-Yong	TP 330
Kaufman, David	MP 018	Kent, Peter	ThP 419	Kim, Helen	TP 401
Kaufman, Thomas C.	TP 434	Kent, Peter	MP 579	Kim, Hye Sook	MP 581
Kaupilla, Tiina	TOF pm 04:10	Kenttämaa, Hilikka I.	TP 071	Kim, Hye-Jeong	ThP 395
Kaur, Surinder	MP 336	Kenttämaa, Hilikka I.	TOE pm 04:10	Kim, Hye-yeung	TP 503
Kaur, Surinder	TOA am 09:35	Kenttämaa, Hilikka I.	TP 062	Kim, Hyun Sik	MP 061
Kaur-Atwal, Gushinder	MP 168	Kenttämaa, Hilikka I.	TP 070	Kim, Hyun Sik	MP 051
Kautz, Roger	TOD pm 03:10	Kenttämaa, Hilikka I.	MOG pm 03:50	Kim, J. S.	TP 113
Kawaguchi, Shinki	TP 234	Kenttämaa, Hilikka I.	TOG am 09:55	Kim, Jeong Beom	WP 474
Kawakami, Takao	ThP 261	Kenttämaa, Hilikka I.	TP 069	Kim, Jin Hee	ThP 350

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space



INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Kim, Jin Young	MP 541	Kleinholz, Nanette M.	MP 500	Koller, Kerry	WP 253
Kim, Jing Young	MP 581	Kleinnijenhuis, Anne J.	MP 129	Kolli, Kumar	TP 451
Kim, Jinwoong	ThP 348	Klemm, Clementine	ThP 274	Kolpin, Dana W.	ThOG am 08:55
Kim, Jun	TP 441	Klepárník, Karel	ThP 026	Kondo, Miwako	WP 572
Kim, June-Hyung	MP 403	Klepel, Stefan	MP 324	Konenkov, N. V.	ThP 057
Kim, Jung Nyun	ThP 374	Klerk, Leendert A.	WP 073	Konenkov, Nikolai V.	ThP 059
Kim, Kami	TP 537	Kliman, Michal	TP 054	Konermann, Lars	MP 480
Kim, Kami	ThP 522	Kline, Kelli G.	TOA pm 03:10	Konermann, Lars	MP 485
Kim, Kami	TP 156	Klinkert, Ivo	TP 297	Konermann, Lars	WP 457
Kim, Kyung-Rae	TP 221	Klotz, James L.	ThP 118	Konermann, Lars	MOE pm 04:50
Kim, Moo-Young	WP 334	Klouckova, Iveta	TP 372	Konermann, Lars	WP 460
Kim, Sangtae	ThOB pm 02:50	Klouckova, Iveta	ThP 454	Konermann, Lars	TP 342
Kim, Seol-a	ThP 374	Klouckova, Iveta	ThP 250	Kong, Ron	WP 190
Kim, Seung Yong	MP 051	Klouckova, Iveta	MOC am 10:55	Kong, Ron	WP 321
Kim, Sung Chan	ThP 490	Klouckova, Iveta	TP 393	Kong, Xianglei	MP 483
Kim, Sung Chan	MP 391	Klouckova, Iveta	MP 309	Kong, Xianglei	WOA am 08:15
Kim, Sunghwan	MP 136	Klychnikov, Oleg	ThP 515	Kong, Xianglei	MP 567
Kim, Sunghwan	MP 051	Knapp, Amy R.	TP 268	Kong, Yibing	WOB am 08:15
Kim, Sunghwan	MP 061	Knapp, Amy R.	TP 268	Konishi, Ikoo	WP 087
Kim, Tae-young	TP 033	Knapp, Daniel R.	TP 012	Konishi, Ikoo	WP 089
Kim, Yangsun	MP 216	Knapp, Daniel R.	TP 566	Konishi, Yoshiyuki	ThP 093
Kim, Yangsun	TP 202	Knapp, Daniel R.	MP 588	Kononikhin, Aleksey S.	MP 419
Kim, Yangsun	WP 037	Knapp, Deborah W.	MP 514	Kononikhin, Aleksey S.	TP 085
Kim, Yong-Lim	ThP 395	Knemeyer, Ian	ThP 096	Kononikhin, Alexey S.	MP 141
Kim, Yun-Gon	WOB am 09:55	Knepper, Ronald W.	MP 054	Konstantinos, Thalassinou	ThP 411
Kimes, Nikole	TP 162	Knierman, Michael D.	TOA am 08:15	Konuma, Kiyotaka	WP 019
Kimura, Yumiko	WP 399	Knip, Mikael	TP 461	Kool, Jeroen	MP 527
Kimzey, Mike	TP 474	Knispel, Roland Wilhelm	ThP 487	Kopito, Ron R.	WP 549
Kind, Tobias	WP 365	Knize, Mark G.	ThP 467	Koppenaar, David W.	WOG pm 04:10
Kind, Tobias	ThP 368	Knize, Mark G.	TOC pm 03:50	Korecka, Lucie	TP 504
Kindt, Erick	MP 277	Knutson, Barbara L.	TP 212	Korfmacher, Walter	TP 231
Kindt, Erick K.	WP 176	Knutson, Barbara L.	WP 422	Korfmacher, Walter	ThP 096
King, Nichole	MP 558	Ko, Byoung Joon	TP 221	Korte, Joseph J.	MP 233
King, Richard	MOD am 10:35	Ko, Kinarm	WP 474	Körting, Gerhard	WP 514
King, Richard C.	MP 410	Kobayashi, Kinya	ThP 172	Körting, Gerhard	TP 502
Kinsel, Gary R.	ThP 044	Kobayashi, Mai	WP 019	Kosanam, Hari	MP 495
Kinsel, Gary R.	TP 514	Kobayashi, Masakazu	TP 254	Kossida, Sophia	WP 483
Kinsel, Gary R.	ThP 033	Kobayashi, Masakazu	MP 235	Kossida, Sophia	TP 469
Kinumi, Tomoya	ThP 331	Kobayashi, Yohei	MP 089	Koster, Emile	ThP 205
Kirchner, David	TP 451	Kobeissy, Firas	ThP 530	Koster, Emile	ThP 204
Kirchner, Marc	WP 264	Kobeissy, Firas H.	TP 443	Koster, Emile	WP 249
Kirchner, Marc	WP 503	Kobelski, Robert	ThP 158	Kostiainen, Risto	TP 020
Kirchner, Marc	WP 282	Koc, Emine C.	TP 280	Kostiainen, Risto	TOF pm 04:10
Kirillov, Sergey	MP 079	Koc, Hasan	TP 280	Kostiainen, Risto	TP 223
Kirk, Benjamin B.	WP 109	Koch, Boris	ThP 127	Kostiainen, Risto	WP 205
Kirkegaard, Morten	MP 129	Koch, Boris	ThP 136	Kostiainen, Risto	WP 203
Kirkpatrick, Lindsey M.	TP 062	Koch, Boris	TP 102	Kostiainen, Risto	WP 098
Kirmiz, Crystal	MP 207	Koch, Michel	ThP 196	Kostiainen, Risto	TP 011
Kirsch, Stéphanie	ThP 506	Kochhar, Sunil	WP 362	Kostich, Mitch	TP 103
Kissinger, Candice	ThP 099	Kochin, Vitaly	TP 524	Kostomitsopoulos, Nikolaos G.	MP 421
Kissinger, Candice	WP 391	Kochman, Maya	ThP 238	Kostrzewa, Markus	TP 439
Kissinger, Candice B.	MP 240	Kodadek, Tom	ThP 228	Kostrzewa, Markus	TP 446
Kitner, J.B.	TP 529	Kodera, Kei	WP 087	Kostrzewa, Markus	MP 324
Kitova, Elena	WP 165	Koefeler, Harald	MP 110	Kostrzewa, Markus	ThP 396
Kitova, Elena N.	ThOC am 09:55	Koeleman, C.A.M.	TP 204	Kotanian, Christelle	WP 034
Kittelson, David B.	MP 137	Koeleman, Carolien A. M.	TP 283	Kotanian, Christelle	MP 057
Kiuchi, Masato	ThP 064	Koen, Yakov M.	WP 338	Kotanian, Christelle	WP 026
Kiyonami, Reiko	WP 545	Koenig, Thomas	WP 503	Kothari, Sameer	MP 049
Kizer, Lance	MP 320	Koeniger, Stormy	TP 043	Kothule, Jaya	TP 486
Kjeldsen, Frank	ThP 409	Koeniger, Stormy L.	TP 044	Kotiaho, Tapio	TP 020
Kjeldsen, Frank	MP 129	Koeniger, Stormy L.	ThP 278	Kotiaho, Tapio	TP 011
Kjus, Nini H.	MP 436	Koepke, Sara	WP 125	Kotiaho, Tapio	WP 098
Klagkou, Katerina	ThP 345	Koerting, Gerhard	ThP 273	Kotiaho, Tapio	WP 205
Klagkou, Katerina	TP 143	Koethe, Dagmar	MP 289	Kotiaho, Tapio	WP 203
Klammer, Aaron	WP 265	Kofoed, Eric	MP 166	Kotiaho, Tapio	TOF pm 04:10
Klammer, Aaron	WP 272	Kohler, Maxie	WP 316	Kotova, Tatyana I.	TP 360
Klassen, John	WP 165	Koizumi, Hideya	ThP 047	Koupaei-Abyazani, Mohammad	ThP 203
Klassen, John S.	ThOC am 09:55	Kolakowski, Beata	TOG pm 03:10	Koutek, Bohumir	TP 541
Kleefisch, Christopher J.	ThP 323	Kolesanova, Ekaterina F.	MP 419	Kovtoun, Viatcheslav	WP 062
Klein, Geoffrey C.	MP 135	Koller, Kerry	WP 329	Kowalak, Jeffrey A.	TP 153

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Kowalak, Jeffrey A.	MP 463	Kruger, HSL	WP 324	Kusai, Akihiko	ThP 241
Kowalak, Jeffrey A.	ThP 439	Kruger, HSL	WP 341	Kusai, Akihiko	MP 143
Kowalewski, Karen	ThP 434	Krusemark, Casey J.	MP 126	Kusai, Akihiko	WP 019
Kowalski, Jane M.	WP 076	Krusemark, Casey J.	MP 461	Kuschner, Karl	TP 168
Kowalski, Paul J.	TP 296	Krutchinsky, Andrew	MP 441	Kuschner, Karl W.	MP 183
Koy, Cornelia	MP 339	Krutchinsky, Andrew N.	MP 568	Kushcher, Karl W.	WP 268
Koyanagi, Gregory K.	TP 064	Krylov, Evgeny V.	WP 105	Kushnir, Mark M.	WP 306
Koyanagi, Gregory K.	TP 068	Krylov, Evgeny V.	ThOF pm 03:30	Kussmann, Martin	TP 308
Kozak, Marta	MP 215	Ku, Kuo-Lung	WP 398	Kuster, Bernhard	MP 437
Kozak, Marta	MP 231	Ku, Kuo-Lung	WP 401	Kuster, Bernhard	MOA am 10:35
Kozak, Marta	WP 228	Ku, Kuo-Lung	ThP 353	Kusumoto, Chris	MP 585
Kozin, Sergey A.	MP 419	Ku, Wei-Chi	WP 476	Kusý, Petr	ThP 026
Kozin, Sergey A.	TP 085	Ku, Wei-chi	WP 482	Kuyama, Hiroki	TP 505
Kozlov, Boris	TOF am 09:15	Kuan, I-Ching	WP 332	Kuyama, Hiroki	TP 497
Kozlov, Boris	MP 079	Kubachka, Kevin	ThP 421	Kuzuno, Kouji	WP 126
Kozole, Joseph	ThP 098	Kubachka, Kevin	MOG am 10:35	Kwagh, Jae	WP 301
Kpakima, Felicia	TP 142	Kubachka, Kevin M.	ThP 149	Kwasnik, Mark	WP 102
Krabbe, J.G.	WP 346	Kubicek, Christian Peter	WP 435	Kweon, Hye Kyong	WOB am 08:15
Krabbe, Johannes G.	WP 247	Kubista, Jiri	MP 103	Kweon, Hye Kyong	ThP 422
Kraft, Claudine	ThOA pm 04:10	Kubota, Masayuki	ThP 357	Kwon, Joseph	TP 502
Kraiczek, Karsten	TP 498	Kubwabo, Cariton	WP 214	Kwon, Sung Won	MP 391
Kraj, Agnieszka	ThP 181	Kucek, Omer	ThP 294	Kwon, Tae-Hwan	ThP 395
Kramer, Achim	TP 516	Kudo, Toshiji	MP 177	Kyono, Yutaka	ThP 431
Kramer, Karen	MP 232	Kuebler, Dieter	ThP 428	Kyono, Yutaka	MP 433
Kraner, James C.	WP 230	Kuehl, Don	WP 263	Kyono, Yutaka	MP 443
Krank, Jessica	WOD pm 02:50	Kuehl, Don	ThP 360	Kyselova, Zuzana	WP 303
Krasinska, Karolina M.	ThP 311	Kuhn, Eric	MP 522	Kyselova, Zuzana	WP 317
Krasnoselsky, Alexei	TP 458	Kuhn, Eric	TOB pm 03:10	Labarre, Jean	WP 355
Krasnov, Nikolay	MP 079	Kuhn, Jeffrey F.	TP 336	Labranche, Louis-Philippe	MP 377
Krastins, Bryan	MP 538	Kühn-Hölsken, Eva	MOB pm 04:30	Labranche, Louis-Philippe	TP 105
Kratz, John	WOB pm 03:50	Kühn-Hölsken, Eva	ThP 407	Labre, Daniel	TP 227
Kraus, Alexander	MP 165	Kulik, Willem	MP 224	Lacey, Jean	MP 232
Krause, Peter J.	TP 452	Kullman, Michael	MP 119	Lacey, Jean	ThOC pm 03:50
Krause, Peter J.	TP 444	Kullman, Michael	MP 107	Lacey, Jean M.	MP 222
Kraushaar, Harald	WP 041	Kullman, Michael	ThP 073	Lacoursière, Jean	ThP 227
Kravstov, Alexander	WP 358	Kulp, Kris S.	ThP 104	Ladenson, Jack	MOC am 09:55
Krebs, Ilmari	ThP 122	Kulp, Kristen S.	TOC pm 03:50	Ladinsky, Mark	WOD pm 02:50
Krebs, Ilmari	WP 390	Kulp, Kristen S.	ThP 467	Ladwig, Paula M.	MP 213
Krenkova, Jana	TP 504	Kultima, Kim	TP 473	Laflour, Art	MP 360
Krenková, Jana	ThP 026	Kumagai, Hiroki	WP 399	LaFontaine, Catherine	ThP 192
Kreutzer, Michael	MP 339	Kumar, Chanchal	ThOA am 09:55	Lagarigue, Mélanie	ThP 370
Kriazhev, Leonid	WP 513	Kumar, Chanchal	ThP 408	Lagna, William M.	ThP 129
Kriazhev, Leonid	MP 239	Kumar, Chanchal	TP 309	Lahesmaa, Riitta	TP 461
Kriazhev, Leonid	WP 520	Kumar, Chanchal	WOA pm 03:50	Lahti, David	WP 492
Krieger, Mark	TP 146	Kumar, Narender	MP 265	Lai, Chien-chen	MP 217
Krieger, Mark S.	ThP 137	Kumar, Naresh	WP 412	Lai, Christopher C.	ThP 354
Krishnamurthy, Rajesh	TP 403	Kumar, Rajiv	MP 213	Lai, Ming-Yang	TP 378
Kristal, Bruce S.	TP 222	Kumondai, Kousuke	WP 067	Lai, Raymond	TP 557
Kristensen, Anders Riis	WP 468	Kunapuram, Deepa	MP 488	Lai, Yi-Shin	WP 479
Kristensen, Jacob	TP 170	Kunenkov, Erast V.	MP 141	Laiko, Victor V.	MP 133
Krivos, Kady	WP 438	Kunkle, Samantha	ThP 058	Laine, Olli	MP 487
Krogh, Erik T.	TP 096	Kuo, Chang-Hsin	WP 398	Laine, Olli	MOA pm 03:30
Krogh, Thomas N.	TP 421	Kuo, Jason	TP 215	Laing, William A.	MP 504
Krokhin, Oleg	WP 518	Kuo, Ming-Shang	TP 182	Lajoie, Gilles	MP 432
Krokhin, Oleg	ThP 121	Kuokkanen, Johanna	MP 286	Lajoie, Gilles	MP 175
Krokhin, Oleg	MP 026	Kupfer, Rene	MP 236	Lajoie, Gilles A.	MP 562
Krokhin, Oleg V.	TOE am 08:55	Kuppannan, Krishna	ThP 326	Lajoie, Gilles A.	WP 518
Krol, Jim	ThP 375	Kuppannan, Krishna	MP 474	Lakshmanan, T.	MP 389
Kroll, Chuck A.	MP 222	Kuppannan, Krishna	ThP 384	Lakshmanaswamy, Rajkumar	TP 374
Kroll, David J.	WP 403	Kuprowski, Mark C.	WP 457	Lakso, Hans-Ake	MP 312
Kronewitter, Scott	MP 207	Kuracina, Mark	ThP 130	Lal Menon, Angeli	WP 423
Kronewitter, Scott R.	MP 188	Kuracina, Mark	ThP 375	Lam, Corey	WOG am 09:55
Kroon, Paul A.	WP 388	Kurihara, Shinji	WP 067	Lam, Corey N.W.	WOE pm 03:30
Kroto, Harold W.	MP 068	Kurnosenko, Sergey	ThP 159	Lam, Jean C.Y.	TP 388
Krouse, H. Roy	ThP 139	Kuromitsu, Junro	TP 581	Lam, Stuart	ThP 419
Krouse, Ian H.	ThP 139	Kuromitsu, Junro	MP 429	Lam, TuKiet T.	WP 349
Krovvidi, Ravi	TP 490	Kurulugama, Ruwan T.	MOG pm 04:30	Lamarche, Michelle C.	TP 096
Krueger, Sonja	ThP 408	Kurulugama, Ruwan T.	TP 043	LaMarr, William A.	MOD am 10:15
Krug, Daniel	WP 352	Kurulugama, Ruwan T.	WP 300	Lambrecht, Stijn	TP 556
Krug, Edward	TP 448	Kurzchalia, Teymuras	TP 179	Lamerz, Jens	MP 554

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Lamm, Lolita	WP 322	Larance, Mark	TP 523	Le Blanc, J.C.Yves	ThP 166
Lammert, Stephen A.	WOF am 08:55	Larimer, Frank W.	WP 428	Le Gac, Séverine	ThP 037
Lammert, Stephen A.	MP 087	Larocque, Jean-Francois	WP 171	Le Gac, Séverine	ThP 442
Lamos, Shane M.	MP 461	Larramore, Tatiana	TP 210	Le Grevès, Madeleine	WP 546
Lamos, Shane M.	MOD pm 04:50	Larramore, Tatiana	WOB am 09:35	Le Grice, Stuart F. J.	WP 163
LaMotte, LaTasha	ThP 015	Larsen, Barbara S.	MP 013	Le Grice, Stuart F.J.	WP 477
Lamotte, Latasha	ThP 187	Larsen, Barbara S.	TOF pm 03:50	Le Tot, Clotilde	MP 048
Lamparski, Lester L.	WP 212	Larsen, Brett	WP 475	Le Tot, Clotilde	MP 057
Lampe, Paul	ThP 034	Larsen, Martin R.	TP 409	Leahy, Mark	ThP 243
Lan, WenKui	MP 564	Larsen, Martin R.	WP 530	Leary, Julie	TOD am 08:35
Lancashire, Lee	ThP 259	Larsen, Martin R.	ThOA am 09:35	Leary, Julie A.	MOC am 10:35
Lancaster, Katherine	TP 053	Larsen, Martin R.	MP 442	Leary, Julie A.	MOB am 10:35
Lancaster, Katherine	TP 427	Larsen, Soren	TP 170	Leary, Julie A.	WP 429
Lance, Raymond S.	MOF am 10:15	Larson, Mike	MP 261	Leary, Julie A.	WOC am 08:35
Landgraf, Rachelle R.	WP 080	Larson, Mike	ThP 203	Leary, Julie A.	ThP 277
Landgraf, Rachelle R.	MP 302	Larson, Timothy S.	MP 213	Leary, Julie A.	MP 398
Landreneau, Rodney J.	WP 491	Larson, Tony	WP 405	Leavell, Michael D.	MOC am 10:35
Lane, Laura	WP 154	Larsson, Karin	WOA pm 04:10	Leavitt, Chris	ThP 073
Lane, Laura A.	WP 157	Lasaoa, Maria	MP 575	Leavitt, Christopher	MP 107
Lane, Stephen	ThP 355	Lashin, Vitaly	WP 382	Leavitt, Christopher M.	TP 060
Lane, Steve	MP 030	Laskar, Derek	ThP 220	LeBeau, Marc	ThP 206
Lane, W. S.	TP 359	Laskay, Unige A.	ThP 049	LeBeau, Marc A.	WP 244
Lane, William	ThP 186	Laskay, Ünige A.	MOF pm 04:10	Lebedev, Albert	TP 098
Lane, William S.	ThP 439	Laskin, Julia	ThOC am 08:35	Lebedev, Albert T.	MP 109
Lanekoff, Ingela	TP 540	Laskin, Julia	ThP 134	Lebedev, Albert T.	ThP 080
Lange, Gary W.	MP 155	Laskin, Julia	TP 025	LeBlanc, Yves	ThP 362
Lange, Oliver	MP 392	Laskin, Julia	MP 047	Lebre, Daniel	TP 224
Lange, Oliver	WP 081	Laskin, Julia	WOC pm 03:30	Lebre, Daniel T.	MP 243
Lange, Vinzenz	MP 558	Laskin, Julia	WOG am 09:55	Lebrilla, Carlito	TP 383
Lange, Vinzenz	TOB pm 04:10	Late, Sameer	MP 008	Lebrilla, Carlito	ThP 155
Langen, Hanno	MP 554	Later, Douglas W.	WOF am 08:55	Lebrilla, Carlito B.	MP 207
Langer, Vickie L.	MP 474	Latour, Sylvain	WP 558	Lebrilla, Carlito B.	ThP 281
Langhorst, Marsha	ThP 326	Latour, Sylvain	ThP 361	Lebrilla, Carlito B.	MP 188
Langhorst, Marsha	ThP 332	Lau, Benjamin P.-Y.	TP 352	Lebrilla, Carlito B.	ThP 382
Langish, Robert A.	WP 301	Lau, Hollis	WP 493	Lebrilla, Carlito B.	MP 212
Langlais, Denis	MOF am 09:55	Lau, James	ThP 282	Lebrilla, Carlito B.	WOC pm 02:50
Langlais, Paul	MP 517	Lau, King Wai	MP 196	Lebrilla, Carlito B.	MP 203
Langley, G John	ThP 345	Lau, Michel	MOE pm 04:10	Lebrilla, Carlito B.	WP 302
Langley, G. John	MP 030	Lau, Serrine S.	TP 296	Lebrilla, Carlito B.	ThP 015
Langley, G. John	ThP 355	Laudicina, Donald C.	MP 251	Lebrilla, Carlito B.	ThP 187
Langridge, James	WOC am 08:35	Laufer, Stefan	WP 390	Lebrilla, Carlito B.	ThOB am 08:15
Langridge, James	TOD am 08:35	Laukens, Kris	MP 446	Leclaire, Virginie	MP 308
Langridge, James	MOB pm 04:10	Lauman, Richard H.	MP 349	Leclercq, Guy	MP 102
Langridge, James	ThP 284	Laures, Alice	ThOE am 08:55	Lecompte, Odile	WP 504
Langridge, James	TP 369	Lauricella, Robert	MP 093	Lecompte, Odile	TP 494
Langridge, James	TP 041	Lavatelli, Francesca	ThP 271	Lednev, Igor K.	WP 458
Langridge, James	ThP 076	Lavender, Heather	TP 405	LeDuc, Danika	MOG am 10:35
Langridge, James	ThP 285	Lavigne, Regis	TP 147	LeDuc, Rich D.	MP 124
Langridge, James	ThP 070	Lavold, T	ThP 413	Leduc, Rich D.	MP 559
Langridge, James I.	WP 277	Lawler, Lori K.	WP 184	LeDuc, Richard D.	ThOF am 09:55
Langridge, James I.	MP 499	Lawrence, Theodore S.	TP 455	Lee, Bing	ThP 268
Langridge, Jim	TP 493	Lay, Jack	TP 178	Lee, Bong Hee	MP 541
Langridge-Smith, Pat	TP 270	Lay, Jr, Jackson O.	TP 346	Lee, Chun Pong	TP 321
Langridge-Smith, Pat R.R.	WP 156	Lazar, Alex	TP 403	Lee, Dian	MP 247
Lanham, Kevin A.	MP 573	Lazar, Gloria	WP 308	Lee, Edgar D.	WOF am 08:55
Lankford, Patricia K.	MP 316	Lazar, Iulia M.	WP 539	Lee, Edgar D.	WOF pm 03:30
Lankford, Trish K.	WP 428	Lazar, Iulia M.	WP 502	Lee, Eleanor Y.	TOB pm 03:30
Lapadula, Anthony	MP 211	Lazar, Iuliana M.	WP 204	Lee, Hee Duck	ThP 374
Lapadula, Anthony	WOB am 08:35	Lazarev, Alexander V.	WP 507	Lee, Hookeun	ThOA am 08:55
Lapadula, Tony	TOE pm 03:50	Lazorchak, James M.	TP 103	Lee, Hoo-Keun	TOB pm 04:10
LaPaglia, Amy	WP 189	LB Borden, Katherine	TP 328	Lee, Hui-Ling	MP 359
Lapawa, Marshall	WP 036	LB Borden, Katherine	TP 547	Lee, J. S.	TP 113
Lapko, Veni	MP 263	LB Borden, Katherine	ThP 480	Lee, Jeong Heon	MP 216
Lapko, Veniamin	MP 275	Le, Hoa	ThP 194	Lee, Jeong Hwa	MP 541
Laprade, Bruce N.	MP 043	Le, Hoa	MP 246	Lee, Jeonghoon	WP 541
Laprade, Bruce N.	WP 038	Le, John C.	TP 195	Lee, Jieun	TP 380
Laprevote, Olivier	ThP 010	Le, X.Chris	TP 511	Lee, Jin Hee	MP 581
Laprevote, Olivier	TP 198	Le Blanc, J.C. Yves	ThP 356	Lee, Joeng Heon	WP 037
Laprevote, Olivier	TOC pm 03:30	Le Blanc, J.C. Yves	MP 260	Lee, Joeng Heon	TP 202
Laprevote, Olivier	ThP 101	Le Blanc, J.C.Yves	ThP 170	Lee, Jongok	ThP 239

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Lee, Kelvin H	TOA am 09:15	Lenington, Matthew	TP 067	Li, Jianwei	ThP 150
Lee, Laurance	ThP 300	Lenter, Martin	MP 464	Li, Jinghu	WP 387
Lee, Laurance	MP 246	Lentz, Barry R.	MP 496	Li, Jingwei	ThP 536
Lee, Lawrence	WP 238	Lentz, David	TP 148	Li, Jun	WP 181
Lee, Maw-rong	ThP 342	Lentz, David H.	TP 149	Li, Ka Wan	ThP 515
Lee, Maw-rong	MP 272	Lenz, Christof	MOB pm 04:30	Li, Li	ThP 498
Lee, Maw-rong	MP 305	Lenz, Christof E.	ThP 392	Li, Li	TP 555
Lee, Maw-rong	WP 243	Lenz, Christof E.	ThP 272	Li, Liang	MOD pm 04:30
Lee, Mike	WOE am 08:55	Leonessa, Fabio	TOB pm 03:30	Li, Liang	TP 304
Lee, Mike S.	WP 516	Leon-Rossell, Deborah	TP 395	Li, Liang	ThP 488
Lee, Mike S.	ThP 021	Leopold, Peter	MP 322	Li, Liang	TP 510
Lee, Milton L.	WOF pm 03:30	Lesage, Denis	WP 034	Li, Liang	TP 557
Lee, Milton L.	WOF am 08:55	Lesage, Denis	WP 026	Li, Liang	WP 378
Lee, Opresko	TP 518	Lesage, Denis	MP 057	Li, Liang	TP 466
Lee, Richard S.	TP 488	Lesage, Denis	WP 113	Li, Liang	TP 487
Lee, Sally	MP 264	Lesage, Denis	ThP 143	Li, Liang	TOE am 08:15
Lee, Sang-Won	WP 278	Lesage, Denis	WP 355	Li, Liang	WP 348
Lee, Seon HWA	ThOD am 09:15	Lescuyer, Pierre	ThP 222	Li, Liang	TP 577
Lee, Seon Hwa	ThP 317	Leslie, Andrew D.	ThP 367	Li, Lingjun	TP 294
Lee, Seung-Jin	ThP 395	Leszczyszyn, Oksana	MOG am 09:55	Li, Lingjun	TOE am 09:35
Lee, Stephen S.H.	TP 021	Letarte, Simon	WP 493	Li, Lingjun	MP 369
Lee, Sunho	WP 278	Letarte, Simon	TP 169	Li, Lingjun	TP 454
Lee, Taehoon	TP 502	Letarte, Simon	MP 420	Li, Lingjun	WP 197
Lee, Terry	MP 268	Letarte, Sylvain	ThP 027	Li, Lingjun	MP 573
Lee, Terry D.	TP 172	Letarte, Sylvain	ThP 217	Li, Lingjun	MP 365
Lee, Terry D.	MP 334	Lett, Marie-Claire	WP 504	Li, Luke	TP 408
Lee, Terry D.	ThP 519	Letzel, Thomas	ThP 216	Li, Min	TP 264
Lee, Timothy	TP 362	Leung, Gary N W	TP 132	Li, Ming-Hsin	TP 039
Lee, Viola S.Y.	ThP 342	Leung, Kwan	WP 340	Li, Ming-Hsin	WOF pm 03:50
Lee, Won Sik	WP 177	Leverly, Steven B.	WP 288	Li, Nan	ThP 436
Lee, Woojin	MP 314	Levy, Emmanuel	WP 154	Li, Qing-Run	MP 526
Lee, Ya-Jung	MP 503	Lewandrowski, Urs	TP 382	Li, Rong-Xia	MP 526
Lee, Yuan Tseh	WOF pm 03:50	Leweke, F. Markus	MP 289	Li, Sen	TOE pm 04:10
Lee, Yuan-Teh	ThOD am 09:55	Lewis, Alastair C	TP 138	Li, Sen	TP 069
Leena, P. S. T.	TP 346	Lewis, Ceri	ThP 500	Li, Sen	TP 070
Lee-Parsons, Carolyn W.T.	ThP 510	Lewis, Ernest	MP 088	Li, Sheng	TP 326
Lees, Mike	ThP 216	Lewis, Gregory	WOD am 08:15	Li, Su-Jun	TP 521
Leeuwenburgh, christiaan	ThP 338	Lewis, Hilel	MP 521	Li, Su-Jun	MP 526
Lefevre, Michael	TP 558	Lewis, Ian A.	WP 363	Li, Su-Jun	WP 529
Lefsrud, M.G.	TP 563	Leymarie, Nancy	ThP 283	Li, Wenkui	MP 218
Lefsrud, Mark	TP 398	Leymarie, Nancy	WP 297	Li, Wenlin	TOA am 08:55
Lefsrud, Mark	TP 531	Leymarie, Nancy	WOB am 08:55	Li, Wenlin	MP 277
Lefsrud, Mark G.	TP 529	Li, Aiqun	TP 441	Li, Xiang-Dong	TP 420
Lefsrud, Mark G.	WP 425	Li, Austin	MP 261	Li, Xianyu	TP 208
Legore, L. Jay	MP 087	Li, Austin C.	TP 230	Li, Xiaojuan	MP 127
Lehman, Jim	WP 307	Li, Bensheng	ThP 382	Li, Xiaoqing	WP 337
Lehmann, Michael	TP 366	Li, Chao	TP 213	Li, Xiaoqing	WP 196
Lehmann, Wolf D.	TP 272	Li, Chen	ThP 397	Li, Xiaoxu	ThP 045
Lehmann, Wolf D.	ThP 428	Li, Chunyan	ThP 483	Li, Xiao-Xu	WOF pm 03:10
Lehmann, Wolf D.	MP 402	Li, Chunyan	MP 053	Li, Xiao-Xu	WP 095
Lehotay, Denis C.	ThOC pm 03:10	Li, Ding-Tzai	ThP 507	Li, Xing-Fang	WP 218
Lehotay, Steven J.	WP 211	LI, FANGBIAO	ThP 096	Li, Xing-fang	MP 151
Lei, Zhentian	TP 483	Li, Fangbiao	TP 231	Li, Xing-fang	TP 097
Lei, Zhentian	ThP 123	Li, Frank	TP 150	Li, Xing-Fang	TP 208
Leibfritz, Dieter	TP 180	Li, Frank	MP 448	Li, Xue	TOE pm 02:30
Leibowitz, Jeffrey N.	WP 244	Li, Fumin	TP 055	Li, Yan	MP 393
Leidner, Samantha A.	TP 256	Li, Fumin	TP 237	Li, Yan	MP 470
Leigh, Alyison M.	MP 278	Li, Geng	MP 092	Li, Yan	ThP 496
Leigh, Alyison M.	MOG pm 04:50	Li, Guodong	MP 164	Li, Yan	TP 459
Leigh, Alyison M.	TP 129	Li, Guo-zhong	WP 275	Li, Yinghe	WP 320
Leigh, Daniel	WP 191	Li, Guo-Zhong	WP 277	Li, Yixue	TP 203
Leinweber, Barbara	TP 296	Li, Guo-zhong	ThP 178	Li, Yixue	ThP 403
Leister, Dario	ThP 418	Li, Hong	WP 189	Li, Yi-Xue	TP 521
LeLacheur, Richard M	MP 158	Li, Hong	ThP 511	Li, Yue	TP 255
Lemaire, Remi	TP 299	Li, Hong	TP 561	Li, Yue	MOF am 10:55
Lemaire, Rémi	MOF am 10:35	Li, Hui	WP 121	Li, Yunsen	WP 288
Lemiare, Joel	WP 134	Li, Jianjun	WP 291	Li, Yutai	MP 298
Lemiére, Filip	MP 446	Li, Jianjun	WP 296	Li, Yuyuan	ThP 333
Lemmon, Christopher	MP 540	Li, Jianjun	TP 208	Li, Zhiguo	TP 535
Lemoyne, Alain	MP 308	Li, Jianjun	WP 218	Li, Zhili	ThP 463

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Li, Zu-Guang	WP 243	Lin, Hua	TP 486	Liu, Guowen	ThP 223
Lian, Zhirui	TP 433	Lin, James	MP 268	Liu, Haichuan	ThP 067
Liang, Hongkun	WP 178	Lin, Jeffrey	ThP 156	Liu, Haichuan	MOB am 10:55
Liang, Xiaorong	TP 078	Lin, Joseph	MP 428	Liu, Haichuan	WOB am 08:15
Liang, Xiaorong	MP 130	Lin, Josheph	TP 301	Liu, Haichuan	MP 123
Liang, Xiaorong	MOF pm 04:30	Lin, Lin	ThP 387	Liu, Hongji	ThP 178
Liang, Xiaorong	ThP 328	Lin, Lin	MP 537	Liu, Hongjun	MP 254
Liang, Xiquan	TP 457	Lin, Lin	ThP 258	Liu, Huafen	TP 233
Liang, Xiquan	WOD pm 03:50	Lin, Lin	ThP 381	Liu, Jack	ThP 470
Liang, Xiquan	ThP 464	Lin, Lin	WP 258	Liu, Jian	TP 012
Liang, Xiquan	MP 436	Lin, Melanie	ThP 308	Liu, Jian	TP 566
Liang, Xiquan	ThP 534	Lin, Ming-Hung	WP 332	Liu, Jian	MOF pm 04:30
Liang, Zhenmin	WP 559	Lin, Mingxiang	TP 264	Liu, Jian	MP 130
Liao, Chen-Wei	WP 398	Lin, Patrick	WP 307	Liu, Jian	ThP 328
Liao, Chun-Lin	TP 269	Lin, Po-Chiao	ThP 042	Liu, Jie	MOB pm 04:10
Liao, Hsin-Kai	ThP 041	Lin, Po-Chiao	TP 507	Liu, Jun	TP 306
Liao, Hua-Xin	TP 384	Lin, Po-Chiao	ThP 041	Liu, Jun	MP 331
Liao, Hui-Fen	WP 401	Lin, Shanhua	MP 125	Liu, Li	ThP 446
Liao, Lujian	TP 163	Lin, Shen-Nan	WP 322	Liu, Lin	TP 368
Liao, Lujian	TP 160	Lin, Shu-Yao	ThP 028	Liu, Nathan W.	TP 554
Liao, Nan-Shih	MP 305	Lin, Shwu-Bin	TP 378	Liu, Ning	ThP 532
Liao, Pao-chi	MP 219	Lin, Simon	WP 556	Liu, Sheng	MP 254
Liao, Pao-Chi	WP 494	Lin, Tin-Yu	TP 378	Liu, Shujun	ThOA am 09:15
Liaw, Wen-Feng	WP 476	Lin, Ying-Hsuan	TP 091	Liu, Siqi	MP 565
Liberton, Michelle	TP 534	Lin, Yiqing	TOD pm 03:10	Liu, Siqi	WP 500
Licht, Stuart	MP 477	Lin, Yiqing	ThP 336	Liu, Suya	MP 432
Liebler, Dan C.	TP 456	Lin, Zhaosheng	TP 438	Liu, Ting	ThP 110
Liebler, Daniel	TP 491	Lindblad, Peter	MP 572	Liu, Ting	ThP 542
Liebler, Daniel C.	ThP 482	Lindgardh, Niklas	ThP 293	Liu, Tong	ThP 511
Liebler, Daniel C.	MP 187	Linder, Sara J.	TP 146	Liu, Tong	TP 561
Lieske, John C.	MP 213	Linder, Sara J.	ThP 137	Liu, Tun	TP 426
Lifton, Richard P.	MP 435	Linder, Wolfgang	WP 406	Liu, Wei	TP 368
Lightfield, Alan R.	WP 180	Linder, Wolfgang	WP 136	Liu, X. Michael	TP 107
Ligler, Frances	MP 468	Lindner, Buko	WP 418	Liu, Xian-Nian	WOF pm 03:10
Lill, Jennie	TP 279	Lindsey Rose, Kristie M.	WOA am 09:15	Liu, Xiaohui	TP 415
Lilley, K. S.	TP 359	Lindsey Rose, Kristie M.	TP 360	Liu, Xiaoyan	WP 544
Lilley, Kathryn S.	WOD pm 02:30	Lindstrom, Andrew	TP 133	Liu, Xiaoyun	TP 462
Lilley, Kathryn S.	ThP 439	Ling, Victor	TP 267	Liu, Xiaoyun	ThOF pm 02:50
Lim, Amareth	WP 561	Ling, Yun	WP 036	Liu, Xiaoyun	TP 043
Lim, Amareth	MP 475	Linhardt, Robert J.	TP 210	Liu, Xin	WP 218
Lim, Chee C.	ThP 528	Linhardt, Robert J.	WOB am 09:35	Liu, Xin	TP 208
Lim, H. B.	MP 216	Link, Andrew J.	ThP 471	Liu, Xiuping	TP 570
Lim, Heng-Keang	MP 250	Lionaki, Sofia	MP 335	Liu, Yan-Hui	TP 390
Lim, Heung Bin	TP 113	Liou, Cha-Chun	ThP 014	Liu, Yanling	TP 366
Lim, Hyon Kyun	ThP 350	Lipkin, W. Ian	MP 326	Liu, Yansheng	WP 334
Lim, Jinkyu	MP 519	Lippa, Timothy	MP 022	Liu, Ying	WP 058
Lim, Jinkyu	ThP 523	Lippa, Timothy P.	ThP 144	Liu, Ying	MOC am 09:35
Lim, Kheng	MOD am 10:15	Lippa, Timothy P.	WP 021	Liu, Yongzhen	WP 560
Lim, Kheng	ThP 160	Lippert, Dustin N.	WP 471	Liu, Yuhong	MP 480
Lim, Kheng B.	MP 227	Lipson, Kathryn L.	MP 564	Liu, Zhanfei	ThP 131
Lim, Pengdeth	TP 233	Lipton, Mary	MP 450	Liu, Zhiqiang	MP 326
Lim, Peniel J.	TP 477	Lipton, Mary S.	WP 533	Liu, Zhiqiang	ThP 352
Limbach, Patrick A.	WP 442	Lipton, Stuart A.	MP 548	Liu, Zhongfa	TP 251
Limbach, Patrick A.	WP 454	Liriano, Melissa	TP 190	Livesay, Eric	TP 055
Limbach, Patrick A.	WP 452	Littlewood, Peter	TP 228	Liyanage, Rohana	TP 178
Limbach, Patrick A.	WP 438	Littrell, Jack	MP 546	Liyanage, Rohana	TP 346
Limbach, Patrick A.	TP 327	Liu, Ang	WP 383	Lloyd, John	TP 472
Limbach, Patrick A.	WP 441	Liu, Ang	MP 273	Lloyd, John	ThP 018
Lin, Biaoyang	TP 470	Liu, Ang	ThP 427	Lloyd, Thomas L.	MOD am 09:35
Lin, Cheng	MP 104	Liu, Anita K.	ThP 309	Lo, Abraham	MP 380
Lin, Cheng	WP 462	Liu, Chao-lin	TP 550	Lo, Andy	TP 304
Lin, Cheng	MP 483	Liu, Chenyi	MP 319	Lo, Andy	TP 557
Lin, Cheng	MP 127	Liu, David Q.	WP 133	Lobel, Peter	MOA pm 04:30
Lin, Cheng	MP 054	Liu, David Q.	WP 138	Lobel, Peter	WP 456
Lin, Chiou-Shu	ThP 342	Liu, Dawei	ThP 405	Loboda, Alex	ThP 252
Lin, Chun-Cheng	ThP 041	Liu, Dingjiang	TP 408	Loboda, Alexander	TOF am 09:35
Lin, Chun-Cheng	ThP 042	Liu, Dongting	ThP 427	Loboda, Sasha	ThP 356
Lin, Chun-Cheng	TP 507	Liu, Dongting	ThP 223	LoCascio, Riccardo G.	ThP 281
Lin, Dayin	MP 571	Liu, Emerson	WOD am 08:15	LoCascio, Riccardo G.	WP 302
Lin, Dayin	WP 556	Liu, Geng-Jhieh	WP 243	Lock, Chris	WP 475

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Lock, Chris	WP 354	Lubeck, Markus	WP 543	Ma, Bin	ThP 269
Lock, Christopher	ThP 170	Lubeck, Markus	WP 085	Ma, C.Y.	MP 459
Lock, Stephen J.	WP 191	Lubeck, Markus	TP 283	Ma, Cynthia X.	WP 384
Lodder, Helen	ThP 189	Lubman, David M.	TP 455	Ma, Dan	MP 532
Lodder, Helen	ThP 201	Lubman, David M.	ThP 397	Ma, Ji	MP 280
Lodenquai, Peter	ThP 197	Lubman, David M.	TP 436	Ma, Ji	ThP 194
Loderstedt, James	WP 548	Lubman, David M.	ThP 412	Ma, Ji	MP 246
Loe, Oystein	TP 256	Lubman, David M.	TP 503	Ma, Jiyuan	TP 260
Loevenich, Sandra	ThP 255	Lubman, David M.	MP 201	Ma, Li	TOD pm 04:10
Loewy, Amanda	MP 518	Lubman, David M.	ThP 389	Ma, Li	ThOD am 08:55
Loftus, Neil	WOB pm 04:10	Lubman, David M.	WOA pm 02:50	Ma, Li-chung	WP 456
Loftus, Neil	WP 359	Lubman, David M.	ThP 457	Ma, Mingming	MP 369
Loftus, Neil	TP 252	Lucas, David A.	ThP 461	Ma, Mingming	WP 197
Loftus, Neil	WP 346	Lucas, David A.	TP 533	Ma, Mingming	TOE am 09:35
Logan, Susan	TP 385	Lucas, David M.	TP 268	Ma, Mingming	MP 365
Lohmann, Wiebke	WP 381	Lucka, Adam W.	ThP 031	Ma, Mingming	TP 294
Lohrig, Katharina	ThP 418	Luckey, John Chance	WP 531	Ma, Peng	MP 238
Lomas, Lee O	TP 437	Lucot, Jean Pierre	TP 299	Ma, Ya-Lin	TP 008
Lombardo, Christian R.	MP 510	Ludolf, Fernanda	ThP 258	Ma, Ya-Lin	TP 018
Lomeli, Shirley H.	TP 332	Luebbert, Christine	WP 065	Ma, Yuliang	MP 548
Long, Edward	MP 138	Luebbert, Christine	WP 076	Määttä, Ulrika	WP 257
Long, Fred	MP 470	Lugo, Christopher W.	TP 560	Mabbett, Sarah	MP 045
Loo, Joesph A.	ThP 398	Lui, Xueguang	ThP 485	MacCormack, Tyson	ThP 488
Loo, Joseph	WP 487	Lui, Y.	TP 204	MacCoss, M. J.	TP 359
Loo, Joseph A.	MP 515	Luider, Theo	WP 486	MacCoss, Michael	WP 269
Loo, Joseph A.	MOG am 09:35	Luider, Theo M.	TP 484	MacCoss, Michael	ThP 448
Loo, Joseph A.	ThP 527	Luider, Theo M.	WP 318	MacCoss, Michael J.	MOA am 09:55
Loo, Joseph A.	TP 332	Luider, Theo M.	ThOB am 08:55	MacCoss, Michael J.	TP 506
Loo, Joseph A.	ThP 529	Luk, Emily	MOD pm 04:10	MacCoss, Michael J.	TOA pm 03:10
Loo, Joseph A.	TP 395	Luk, Emily	WP 369	MacCoss, Michael J.	WP 272
Loo, Joseph A.	TP 013	Luke, Brian	WP 358	MacCoss, Michael J.	TOA pm 02:50
Loo, Joseph A.	WP 523	Luketich, James D.	WP 491	MacDonald, Tobey J.	MP 528
Loo, Joseph, A.	WOA am 08:55	Luna, Leah G	MOA am 10:15	MacDonald, Tobey J.	ThP 456
Loo, Lawrence	WP 571	Lundgren, Deborah H.	WP 537	Macek, Boris	TP 522
Loo, Rachel O.	ThP 527	Lunte, Susan	MP 412	Mach, Robert	WP 435
Lootsma, Wayne	ThP 171	Luo, Bing	WP 353	Macha, Stephen F.	WP 413
Lorbetskie, Barry	TP 559	Luo, Chan	ThP 045	Macher, Bruce	TP 362
Lorentzen, Travis	WP 552	Luo, Chan	WOF pm 03:10	Machtejevas, Egidijus	ThP 207
Lorenz, Matthias	ThP 008	Luo, Chan	WP 095	Mackay, C Logan	WP 156
Lorenz, Matthias	MP 032	Luo, Qilie	TP 537	Mackay, C. Logan	TP 270
Lorenz, Matthias	TOF am 09:55	Luo, Quanzhou	ThP 182	Mackinson, Constance K.	WP 334
Lorenz, Peter	MP 339	Luo, Quanzhou	WP 533	MacLachlan, Mark	WP 036
Lorenzen, Kristina	WP 142	Luo, Wendy	TP 495	MacMillan, Claire	WP 455
Lorenzen, Kristina	TOD am 09:35	Luo, Yan	ThP 427	Macrae, Alan	ThP 124
Loria, Rosemary	WP 519	Luo, Yan	MP 273	Madalena, Candice	ThP 503
Lorsbach, Beth A.	WP 184	Luo, Yan	ThP 223	Madalinski, Geoffrey	WP 370
Lorton, Patrick K.	TP 044	Luo, Yan	WP 407	Madalinski, Geoffrey	WP 355
Losh, Jenna L.	TP 290	Luo, Zuzheng	ThP 386	Maddock, Janine R.	MP 426
Lottspeich, Friedrich	TP 318	Luosujärvi, Laura	WP 205	Mader, Christopher C.	WP 262
Lottspeich, Friedrich	TP 324	Luosujärvi, Laura	TP 011	Madera, Milan	TP 155
Lourette, Natacha M.	ThOE pm 03:30	Lupton, Sara J.	WP 219	Madera, Milan	TP 393
Love, Brad	TP 457	Lussier, Louis-Simon	WP 229	Madrid, Carlos	TP 156
Love, Craig	ThP 213	Luther, George	ThP 134	Madrid-Aliste, Carlos J.	TP 537
Lovell, Peter	ThP 094	Lutvinskii, Yaroslav	MP 079	Maeda, Junichi	ThP 472
Low, William	WP 478	Lutz, Ward H.	MP 213	Magera, Mark J.	MP 222
Lowe, Carolyn	MP 379	Lv, Liyan	ThP 463	Magis, Lisa	TP 230
Lowenthal, Mark	MP 523	Ly, Tony	MP 106	Magnes, Christoph	MP 228
Lu, Bingwen	TP 160	Ly, Tony	WOC am 08:15	Magnes, Christoph	WP 195
Lu, Bingwen	TP 163	Lygrisse, Justin	MP 161	Magnussen, John D.	ThP 137
Lu, Bingwen	WP 261	Lyndon, Matthew M.	MP 085	Magparangalan, Daniel P.	WP 070
Lu, Hongfang	TP 552	Lynn, Aenoch	ThP 256	Magparangalan, Daniel P.	WP 080
Lu, Kun	MP 347	Lynn, Bert C.	TP 411	Maguigad, Jacob	TP 237
Lu, Meng	TP 059	Lynn, Bert C.	ThP 542	Maguigad, Jacob	MP 261
Lu, Tse-Yuan S.	MP 316	Lynn, Bert C.	WP 422	Mahajan, Nupam	ThP 425
Lu, Tse-Yuan S.	WP 428	Lynn, Bert C.	TP 212	Mahan, Elizabeth A.	WP 254
Lu, Xiaojun	WP 459	Lynn, Bert C.	MP 425	Mahan, Elizabeth A.	MP 410
Lu, Xiaoning	TP 575	Lyons, Joseph	MP 338	Maier, Claudia S.	MP 411
Lu, Youyong	WP 500	Lyons, Joseph M.	ThOA pm 03:50	Maier, Claudia S.	ThOE pm 03:50
Lu, Yu	WP 531	Ma, Bin	MP 171	Maier, Norbert M.	WP 136
Lubeck, Markus	WP 514	Ma, Bin	MP 175	Maier, Norbert M.	WP 406

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Maier, Thomas	MP 324	Manri, Naomi	ThP 172	Martin, Angela M.	ThP 542
Main, Matthew	WP 387	Manri, Naomi	TP 277	Martin, Audrey N.	TOG pm 03:30
Maitre, Philippe	WP 134	Mans, Janet	ThP 399	Martin, Daniel B.	MP 152
Maiuolo, Loredana	WP 141	Mansvelder, Huibert D.	ThP 515	Martin, Daniel P.	MP 087
Maiuolo, Loredana	WP 564	Manuel, Melinda	ThP 160	Martin, Elisabeth	TP 480
Majeed, Ali	TP 287	Manura, John J.	ThP 142	Martin, Gregory D.	WP 212
Majetch, George F.	ThP 483	Manura, John J.	ThP 245	Martin, James D.	ThP 382
Majetch, George F.	TP 371	Mapolelo, Mmilili M.	MP 150	Martin, Larry	ThP 439
Major, Hilary	MP 289	Mapolelo, Mmilili M.	MP 147	Martin, Michael	ThOD pm 03:10
Makarov, Alexander	MP 392	Maquille, Aubert	TP 265	Martin, Nigel	TP 159
Makarov, Alexander	ThOF am 09:35	Marathe, Gopal K.	ThP 313	Martin, Paul T.	TP 565
Makarov, Alexander	MOF pm 04:50	Maravilha, Raquel	MP 527	Martin, Rachel	WP 293
Makarov, Alexander	WP 081	Marcantonio, Maria	ThOA pm 02:50	Martin, Rebecca	WP 466
Makarov, Vasilij	MP 079	Marcantonio, Maria	WP 538	Martin, Silke	TP 318
Makriyannis, Alexandros	MP 270	Marcelo, Paulo	ThP 544	Martinez, Theresa	TP 424
Makusky, A. James	ThP 520	Marchetti, Martina	WP 435	Martinez-Chantar, Maria Luz	MP 287
Makusky, A. James	TP 157	Marchetti, Martina	TP 079	Martinez-Lozano, P.	MP 021
Makusky, Anthony J.	MP 463	Marcucci, Guido	ThOA am 09:15	Martinez-Lozano Sinues, Pablo	MP 029
Malamud, Daniel	MP 507	Marcus, Abigail	WOB pm 03:50	Martinovic, Maryann	WOD am 08:15
Malayappan, Bhaskar	ThP 338	Marcus, Abigale	MP 009	Martinsson, Stefan	WP 257
Malehorn, David E.	WP 491	Marcus, Katrin	ThP 273	Marto, Jarrod	WP 528
Malek, Robert	MP 128	Margesin, Rosa	TP 528	Marto, Jarrod A.	ThP 175
Maleki, Saber H.	WP 550	Marginean, Ioan	MOE am 09:55	Marto, Jarrod A.	WP 531
Maljers, Louis	ThP 292	Margulies, David H.	ThP 399	Marto, Jarrod A.	WP 525
Malkas, Linda H.	WP 303	Marino, John P.	WP 163	Maruyama, Harumi	WP 213
Mallick, Parag	ThP 266	Markey, Sanford P.	ThP 520	Masayuki, Nishimura	WP 511
Malmstroem, Lars	WOC am 08:55	Markey, Sanford P.	TP 157	Mason, Anne B.	MP 490
Malmstroem, Lars	MOB pm 04:10	Markey, Sanford P.	TP 564	Mason, Christopher J.	TP 148
Maltby, David A.	TP 311	Markey, Sanford P.	MP 463	Mason, Stephen E.	TP 442
Maltsev, Sergey	MOG pm 04:10	Markey, Sanford P.	TP 153	Masse, Robert	MP 502
Malyarenko, D. I.	MP 183	Markham, Julie A.	MP 372	Masse, Robert	WP 489
Malyarenko, Dariya	TP 168	Markham, Kelly	TP 463	Masse, Robert	MP 518
Malyarenko, Dariya I.	WP 259	Markl, Christina M.	TP 582	Masse, Robert	ThP 531
Malyarenko, Dasha I.	WP 268	Markley, John L.	WP 363	Masse, Robert	WP 520
Man, Jun	MP 589	Markova, Lucie	TP 372	Masselon, Christophe D.	TP 144
Mancini, Michael	WP 171	Marko-Varga, György	WP 069	Massire, Christian	ThOB am 09:35
Mandarino, Lawrence	MP 517	Marko-Varga, György	ThP 095	Mastovska, Katerina	WP 211
Manenti, Stephane	WP 501	Markovich, Robert	TP 264	Mastovska, Katerina	WP 180
Maner, Kristal	WP 417	Markowski, todd	MP 233	Masuda, Hideki	WP 030
Mangas Suarez, Ana L.	MP 032	Marks, James D.	TOG pm 03:50	Masuda, Hideki	WP 039
Mangels, Michele	ThP 360	Marks, R.	ThP 493	Masuda, Katsuyoshi	TP 023
Mangnall, David	TP 287	Marquardt, Robert B.	WP 327	Masuda, Katsuyoshi	MP 075
Mangrum, John B.	WP 166	Marquez, Victor E.	ThP 354	Masuda, Katsuyoshi	MP 074
Manickam, Nagaraj	TP 350	Marriner, Wendy	WP 447	Masuda, Takeshi	ThP 431
Manicke, Nicholas E.	WP 075	Marsden-Edwards, Emma	WP 408	Masuda, Takeshi	MP 443
Manicke, Nicolas E.	TOC pm 04:10	Marshall, Alan G.	TP 538	Masumoto, Hiroshi	WP 347
Manier, Lisa	WP 054	Marshall, Alan G.	MP 493	Matern, Dietrich	MP 222
Manier, M. Lisa	TP 572	Marshall, Alan G.	MP 147	Matern, Dietrich	ThOC pm 03:50
Mank, Marko	WP 294	Marshall, Alan G.	MP 070	Matern, Dietrich	MP 232
Mann, Benjamin	TP 393	Marshall, Alan G.	MP 072	Mathai, George	MP 105
Mann, Benjamin	TP 155	Marshall, Alan G.	MP 066	Mathai, Joseph, C.	ThP 033
Mann, Benjamin	WP 540	Marshall, Alan G.	MP 149	Mathies, Richard A.	WP 198
Mann, Matthias	MP 332	Marshall, Alan G.	MP 149	Mathivanan, Suresh	ThP 417
Mann, Matthias	ThP 514	Marshall, Alan G.	MP 140	Mathur, Raman	MP 054
Mann, Matthias	TP 307	Marshall, Alan G.	MP 051	Mathur, Sonal	ThOC am 09:15
Mann, Matthias	MP 534	Marshall, Alan G.	MP 068	Matiash, Vitaly	TP 179
Mann, Matthias	WP 474	Marshall, Alan G.	MP 136	Mato, Jose Maria	MP 287
Mann, Matthias	MP 395	Marshall, Alan G.	TOG am 08:15	Matondo, Mariette	WP 501
Mann, Matthias	ThOB pm 04:10	Marshall, Alan G.	MP 135	Matson, Wayne	TP 222
Mann, Matthias	WP 535	Marshall, Alan G.	MP 063	Matson, Wayne R.	MP 297
Mann, Matthias	TP 522	Marshall, Alan G.	WP 497	Matsumi, Yutaka	MP 139
Mann, Matthias	ThP 408	Marshall, Alan G.	TOB am 08:55	Matsushita, Philominathan O.	TP 346
Mann, Matthias	ThOA am 09:55	Marshall, Alan G.	MP 118	Matsuyama, Yumiko	MP 177
Mann, Matthias	WOA pm 03:50	Marshall, Alan G.	MP 150	Mattapalli, Haritha	WP 149
Mann, Matthias	TP 309	Marshall, Alan G.	MP 067	Matthews, C. Robert	WOC pm 02:50
Mann, Matthias	ThP 505	Marshall, Alan G.	WP 421	Mattila, Pirkko	ThP 267
Manning, LaRue	ThP 103	Marshall, Peter S.	ThP 097	Matus, Isaac	ThP 492
Manos, Dennis	WP 259	Marshall-Waggett, Carla J.	MP 267	Matyi, Charles	MP 333
Manos, Dennis	TP 168	Marshall-Waggett, Carla J.	WP 199	Matyska, Maria T.	WP 377
Manos, Dennis M.	WP 268	Martha, Cornelius T.	WP 247	Maureen, Goodenhow	TP 305

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Maurer, Joachim	WP 316	McDonald, W. Hayes	MP 316	McSweeney, Nicole	TP 226
Mauriala, Timo	WP 098	Mcdonell, Mike	TP 492	McWilliams, Lisa G	MP 198
Mautner, Agnes	WP 195	Mcdonnell, Liam	WP 073	McWilliams, Lisa G	MOA am 10:15
Mawhinney, Doug	ThP 158	McEwan, Murray J	WP 114	Meacham, J. Mark	MOE am 10:55
Mawhinney, Thomas P	WP 436	Mcewen, Charles N.	MP 013	Meade, Mitchell	TP 268
Mawhinney, Thomas P	ThP 287	Mcewen, Charles N.	MOG pm 03:30	Meany, Danni L	ThOE pm 04:10
Mawn, Michael P	ThP 133	Mcewen, Charles N.	TOF pm 03:50	Mechref, Yahia	TP 193
Mawuenyega, Kwasi G	MP 529	McEwen, Melanie L.	TP 445	Mechref, Yehia	ThP 278
Maxwell, George L.	ThP 461	McFarland, Melinda A.	TP 157	Mechref, Yehia	TP 392
May, Jody	WP 107	McFarland, Melinda A.	TP 564	Mechref, Yehia	TP 155
May, Jody C.	TP 056	McGibbon, Graham	WP 382	Mechref, Yehia	MP 206
May, Jody C.	MP 095	McGibbon, Graham A.	MOE pm 05:10	Mechref, Yehia	TP 203
May, Michael	WP 267	McGinley, Christopher M	TP 256	Mechref, Yehia	MP 283
Mayampurath, Anoop	TP 055	McGrath, Sara C	MP 198	Mechref, Yehia	ThP 385
Mayampurath, Anoop M.	WP 510	McGrath, Sara C	MOA am 10:15	Mechref, Yehia	WP 303
Mayampurath, Anoop M.	WP 280	McGuire, Jeffrey	MP 351	Mechref, Yehia	ThP 250
Mayboroda, Oleg	WP 311	McGuire, Jeffrey M.	MP 234	Mechref, Yehia	ThP 286
Maycox, Peter	MP 532	McHugh, John	MP 377	Mechref, Yehia	ThP 454
Mayer, Richard	WP 007	McIlwain, Sean	TOE am 09:35	Mechref, Yehia	TP 372
Mayer, Richard	WP 022	McInerney, Michael	ThP 527	Mechref, Yehia	WP 317
Mayya, Viveka	WP 537	McIntosh, Martin	TP 458	Mechref, Yehia	TP 393
Maze, Josh T.	ThP 022	McIntyre, Doug	ThP 213	Mechref, Yehia	ThP 394
Maze, Joshua T	MP 045	McIntyre, Thomas M	ThP 313	Mechref, Yehia	MOC am 10:55
Maziarz, E. Peter	TP 107	McJimpsey, Erica	TP 383	Medana, Claudio	TP 145
Mazsaroff, Istvan	ThP 308	McJimpsey, Erica	ThP 155	Medzihradzsky, Katalin F.	MP 189
Mazur, Matthew T.	ThP 083	McKay, Adam R.	WP 143	Meerholz, Klaus	MP 111
Mazzitelli, Carolyn	WP 443	Mckay, Matthew J.	MP 405	Meija, Juris	MOG am 10:35
Mazzitelli, Carolyn	TOC am 08:15	McKay, Richard	TOF pm 03:50	Meikle, A. Wayne	WP 306
Mazzotti, Fabio	WP 564	McKay, Richard G.	MP 013	Meinhart, Doug	MP 143
Mazzotti, Fabio	WP 141	McKean, Paul J	MOA am 10:55	Meiring, Hugo D.	ThP 174
Mbuy, Gustave	WP 245	McKee, James A.	WP 162	Meissner, Alex	MOB am 09:35
Mc Farlane, John	MP 262	McKemie, Daniel	TP 141	Mekonnen, Belew	MP 018
Mcalister, Graeme	MOF pm 04:50	McKenna, Therese	ThP 070	Melchior, Katja	MP 575
McAlister, Graeme	TOB am 09:55	McKenna, Therese	TP 369	Melker, Richard J.	MP 230
McAlister, Graeme C.	MP 132	McKenna, Therese	ThP 285	Mellor, John M	ThP 345
McBee, Joshua	MP 420	McKenna, Therese	ThP 284	Men, Lijie	TP 404
McBride, William J.	MP 283	McKenna, Therese	MP 532	Mendell, Jerry	TP 565
McCarry, Brian	WP 469	McKenzie, Donald L	WP 063	Mendoza, Jhoana	TP 137
McCarry, Brian E.	MP 282	McKeown, Cathy K.	WP 428	Mendoza, Luis	TP 175
McCartney, John	WP 178	McKinney, Willie J.	MP 350	Mendoza, Vanessa	MP 497
McCarty, Kathleen M.	WP 349	McLafferty, Fred W.	WOA am 08:15	Mendrinou, Savvas E.	MOF am 10:15
McCaskill, David	ThP 384	McLafferty, Fred W.	MP 567	Meneses, Halani	TP 219
Mccaskill, David	TP 217	McLafferty, Fred. W.	MP 483	Meng, Chin-kai	WP 226
McClellan, Joseph E.	TP 430	McLaughlin, Theresa	MP 246	Meng, Fanyu	WP 548
McClintock, Carlee	ThOE pm 03:10	Mclean, Janel R	MOG am 10:15	Meng, Fanyu	ThP 083
McClintock, Carlee	WOC pm 03:50	McLean, Janel R.	WP 103	Meng, Min	WP 327
McClue, Thomas D.	TP 253	Mclean, John A.	WP 053	Meng, Min	MP 256
McCollam, David A.	WP 244	McLean, John A.	ThOE am 09:15	Meng, Min	ThP 296
McComb, Mark	TP 177	McLean, John A.	TP 054	Meng, Zhaojing	MP 469
McComb, Mark E.	TP 407	McLean, John A.	TP 050	Meng, Zhaojing	TP 533
McComb, Mark E.	ThP 271	McLean, John A.	MOG am 10:15	Meng, Zhaojing	ThOA am 08:35
McComb, Mark E.	TP 406	McLeod, Cameron	ThP 098	Menon, Angeli	WP 434
McComb, Mark E.	WP 496	McLoughlin, Debra	MOD am 10:35	Menze, Bjoern H.	WP 503
McComb, Mark E.	ThP 035	McLuckey, Scott	WP 132	Menzel, Christoph	WP 042
Mccomb, Mark E.	TOE am 09:15	McLuckey, Scott	ThP 328	Menzel, Christoph	ThP 434
McComb, Mark E.	ThP 528	McLuckey, Scott A.	ThP 056	Merchant, Mark E.	TP 319
McComb, Mark E.	MP 180	McLuckey, Scott A.	ThP 050	Meredith, Rhiannon M	ThP 515
McComb, Mark E.	TP 154	McLuckey, Scott A.	MOF pm 04:30	Merenbloom, Samuel	WP 101
McCooeye, Margaret A.	TOG pm 03:10	McLuckey, Scott A.	MP 130	Merenbloom, Samuel	ThP 286
Mccowen, Kevin	WP 045	McLuckey, Scott A.	MP 096	Merenbloom, Samuel I.	WP 100
McCrea, Joanne	MP 319	McLuckey, Scott A.	TP 061	Merenbloom, Samuel I.	ThP 278
McCrum, Erin C.	ThP 320	McLuckey, Scott A.	TP 078	Merette, Sandrine A.M.	ThP 211
McCullough, Bryan	WP 455	McLuckey, Scott A.	MP 094	Meriin, Anatoli	ThP 526
McCush, Frederick	MP 256	McMurray, Walter	WP 349	Merkel, Dietrich	MP 464
Mcdermott, John C.	ThP 404	McMurry, Peter H.	MP 137	Merkle, Scott	ThP 296
McDermott, John C.	MP 400	McNabb, Warren C.	MP 504	Merkle, Scott S.	MP 311
McDonald, Fiona	ThP 265	McNulty, Dean	ThP 500	Merrill Jr., Alfred H.	WP 420
McDonald, Jeffrey G.	ThP 320	McNulty, Dean E.	WP 536	Merrill, Jr., Alfred H.	MOC am 09:35
McDonald, Steve	WP 408	McRae, Garnet	MP 259	Merrill, Jr., Alfred H.	WP 058
McDonald, W. Hayes	WP 428	McRae, Garnet	WP 566	Merriman, Scott	ThP 201

Program Code: M, T, W, Th = Day O = Oral A, B, C, D, E, F, G = Session am = Morning, pm = Afternoon Time  
M, T, W, Th = Day P = Poster Poster board space



INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Merriman, Scott	ThP 210	Miller, Jeffrey D.	WP 570	Mocanu, Mihaela	TP 553
Merriman, Scott	ThP 189	Miller, Jennifer T.	WP 477	Mocanu, Viorel	MP 335
Mesaros, Clementina	ThP 317	Miller, John P.	ThP 540	Mocanu, Viorel	WP 554
Mesecar, Andrew	WP 407	Miller, Ken	WP 545	Mocanu, Viorel	TP 553
Mesecar, Andrew D.	ThP 427	Miller, Ken	MP 389	Mochalov, Sergey	MP 109
Mesri, Mehdi	TP 441	Miller, Kevin A.	ThP 359	Modeste, Fabrice	WP 026
Mess, Jean-Nicholas	WP 558	Miller, Krista	TP 168	Modugno, Michele	ThP 432
Mess, Jean-Nicholas	MP 169	Miller, Marcia M.	MP 334	Moebius, Jan	TP 382
Messori, Luigi	ThP 082	Miller, Mark	WP 240	Moehring, Thomas	MP 368
Mestecky, Jiri	TP 389	Miller, Meredith	WP 129	Moehring, Thomas	TP 207
Mester, Zoltan	TOG pm 03:10	Miller, Raanan	WP 108	Moehring, Thomas	MP 392
Metcalf, William W	WP 394	Miller, Raanan A.	WP 105	Moehring, Thomas	WP 062
Metelmann-Strupat, Wolfgang	MP 052	Miller, Raanan A.	ThOF pm 03:30	Moeller, Benjamin C.	TP 141
Methot, Nathalie	TP 189	Miller, Ronald A.	MP 363	Moennikes, Rene	TOF am 09:55
Metz, Thomas O.	TP 281	Millington, David S.	WOD am 08:55	Moghimi, Ahmadali R.	ThP 175
Metz, Thomas O.	WP 360	Mills, David A.	ThP 281	Mohamed, Rayane	ThP 379
Meyer, Helmut E.	TP 468	Mills, David A.	WP 302	Mohamed, Salimo	MP 028
Meyer, Helmut E.	WP 555	Mills, Juliane	TP 419	Mohammadi, Moosa	MP 200
Meyer, Helmut E.	MP 467	Mills, Juliane	TP 399	Mohammed, Shabaz	MOB am 10:15
Meyer, Helmut E.	ThP 414	Mills, M D.	WP 046	Mohammed, Shabaz	TP 498
Meyer, Helmut E.	ThP 273	Mills, M D.	ThP 065	Mohammed, Sulma	ThP 459
Meyer, Hemut E.	TP 302	Milne, Stephen B.	ThP 105	Mohammed, Sulma I.	TP 323
Meyer, Jane	ThP 469	Minamisawa, Toshikazu	TP 206	Mohan, Archana	WOA pm 02:30
Meyer, Matthew M.	WP 127	Minardi, Carina S.	ThP 341	Möhring, Thomas	MP 394
Meyer, Melissa J.	TP 250	Minardi, Carina S.	MP 150	Mohsin, Sheher	ThP 115
Mi, Deming	TP 453	Minkoff, Marjorie	ThP 495	Moini, Mehdi	WP 201
Mi, Deming	TP 447	Minkoff, Marjorie	MP 544	Moini, Mehdi	WP 202
Mi, Deming	WP 485	Minkoff, Marjorie	ThP 493	Moini, Mehdi	WP 193
Miao, Shichang	MP 246	Minkoff, Marjorie	ThP 509	Moise, Adrian	MP 330
Miao, Shichang	MP 280	Mintz, Michelle	MP 428	Moision, Robert M.	ThOC am 08:15
Miao, Shichang	ThP 194	Miranda, Cristobal L.	ThP 315	Molina, Erick	TP 042
Miao, Yunan	MP 268	Mirokin, Yuri	TP 153	Molina, Henrik	ThP 417
Miao, Yunan	ThP 519	Mirza, Shama P.	MP 546	Mollah, Sahana	TP 279
Miao, Zhuang	WOB pm 03:10	Mirza, Shama P.	ThP 228	Mollova, Nevena	WP 340
Mibuka, Ryo	WP 067	Mirza, Shama P.	TP 380	Molloy, Mark P.	MP 405
Michailidis, George	MP 173	Mirzaei, Hamid	MP 420	Momany, Frank	TP 200
Michelsen, Peter	MP 159	Misawa, Yukiko	WOA am 09:15	Monaghan, Michael	WP 331
Michelsen, Uwe	ThP 468	Mischak, Harald	MP 508	Monga, Manoj	TP 554
Michon, Josée	ThP 361	Mise, Miyako	TP 543	Mongkoldee, Thongperm	WP 315
Mick, Joseph	ThP 378	Misek, David	TP 503	Monigatti, Flavio	MP 178
Mickus, Brian E.	WP 437	Misek, David E.	TP 436	Monigatti, Flavio	WP 503
Midthune, Brea	ThP 496	Misek, David E.	WOA pm 02:50	Monigatti, Flavio	TP 488
Mielke, Levi H.	ThP 056	Misharin, Alexander S.	MP 059	Mönkkönen, Hannu	MP 286
Mierzwa, Jerzy	WP 221	Misharin, Alexander S.	TP 036	Mönkkönen, Jukka	MP 286
Mietzner, Timothy A.	WP 464	Misharin, Alexander S.	MP 133	Monnig, Curtis	TP 363
Migneault, Isabelle	MP 406	Misharin, Alexander S.	MP 058	Monroe, Eric B.	TP 290
Mijakovic, Ivan	TP 522	Mishchenko, Natalia	WP 396	Monroe, Matthew E.	WP 286
Mikaia, Anzor	ThP 233	Misjudeen, Raji A.	MP 380	Monroe, Matthew E.	WP 510
Mikhaylin, Alexander	MP 025	Mistrik, Robert	ThP 372	Monroe, Matthew E.	TP 518
Miki, Shigehito	MP 089	Mistrik, Robert	TP 232	Monroe, Matthew E.	WP 360
Miki, Shinichi	TP 009	Mitchell, Charles	TP 479	Monsarrat, Bernard	WP 501
Mikolajczak?, Judith	WP 527	Mitchell, Jon C.	TP 217	Montelione, Gaetano T.	WP 456
Mikulskis, Alvydas	MP 397	Mitchell, Matt	MP 291	Montgomery, Helen V.	ThP 343
Milgram, Eric	MP 291	Mitchell, Sarah	MP 254	Montgomery, Hillary A.	ThP 406
Miliotis, Tasso	ThP 452	Mitchell, Todd W.	ThP 324	Montgomery, Madeline	ThP 206
Miliotis, Tasso	ThP 200	Mitchell, Todd W.	MOC am 10:15	Montgomery, Madeline	WP 240
Milks, Ray S.	TP 037	Mitchison, Timothy	TP 515	Moody, David E.	WP 322
Millar, A. Harvey	TP 321	Mitra, Srijeet K.	MP 556	Moody, Robert	WP 516
Miller, Aaron	ThP 540	Mitschke, Stefan	ThP 236	Moon, Ju-Yeon	ThP 322
Miller, Alan	TP 349	Mittler, Frédéric	ThP 184	Moon, Pyong-gon	ThP 395
Miller, Benjamin R.	TP 462	Mittler, Gerhard	TP 490	Moore, Brian	ThP 139
Miller, Bryan	WP 510	Miyagi, Masaru	MP 447	Moore, Erika	ThP 302
Miller, Bryan D.	TP 465	Miyagi, Masaru	MP 549	Moore, Jeff D.	ThP 320
Miller, Christine	WP 556	Mize, Amy	WP 189	Moore, Kevin L.	MOB am 10:35
Miller, Christine	WP 399	Mize, Todd H.	TP 095	Moore, Paul	TP 441
Miller, Christine A.	TP 465	Mizuno, Yasuko	MP 177	Moore, Ray	TP 401
Miller, Christine A.	TP 420	Mizzen, Craig A.	TOB am 09:35	Moore, Roger	TP 172
Miller, Duane	ThP 340	Mo, Jingjie	WP 439	Moore, Roger	ThP 519
Miller, Fred R.	ThP 412	Mobley, James A.	TP 293	Moore, Roger E.	MP 334
Miller, Jason	TP 168	Mocanu, Mihaela	TP 499	Moore, Ronald J.	WP 533

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Moore, Ronald J.	WP 360	Mueller, Lukas	MOB pm 04:50	Muyldermans, Serge	ThP 475
Moore II, Doyle "Ray"	MP 460	Mueller, Lukas	WOD pm 03:30	Myer, Matthew J.	TP 015
Moorman, Nathaniel J.	MP 574	Mueller, Lukas N.	ThOA pm 04:10	Myers, Jeremy S.	TP 456
Mootha, Vamsi K.	WOD am 08:15	Mueller, Markus	ThOA am 08:55	Mylott, William	ThP 195
Moradian, Annie	ThP 059	Mueller, Markus	MOB pm 04:50	Myung, Seung-Woon	TP 100
Moras, Dino	ThOG am 09:55	Mueller, Rolf	WP 065	Myung, Sunnie	TP 044
Mordehai, Alex	ThP 213	Mueller, Wolfgang	TP 046	Na, Seungjin	WP 287
Moreillon, Philippe	TP 308	Muhammad, Jerry	WP 342	Nabetani, Takuji	WP 419
Morell, Maria	TP 436	Muhabib, Tasneem	MP 343	Nachi, Ridha	TP 242
Moreno, Maria J.	TP 388	Mühlberger, Fabian	ThP 236	Nadjam-Ul-Haq, Muhammad	WP 041
Morey, Timothy E.	MP 230	Muijsers, Anton O.	TP 353	Nadler, Wolfgang	WP 040
Mori, Mayumi	TP 386	Muir, Derek C.G.	TP 092	Naegel, Edgar	TOD pm 03:50
Morin, Louis-Philippe	WP 256	Mukai, Kiyoshi	ThP 472	Naegel, Edgar	MP 253
Morita, Hiro	WP 423	Mukherjee, Sohini	MP 393	Nagai, Shinji	MP 204
Moritake, Shinji	WP 068	Mukhopadhyay, Aindrila	WP 429	Nagalla, Srinivasa R.	TP 271
Mornoe, Eric	MP 362	Mukhopadhyay, Aindrila	WP 371	Nagalla, Srinivasa R.	MP 427
Moroz, Leonid L.	ThP 094	Mukhopadhyay, Aindrila	TP 546	Nagao, Hirofumi	MP 074
Morr, Mary	WP 309	Mullaugh, Katherine	ThP 134	Nagao, Hirofumi	MP 075
Morr, Mary	WP 167	Mullen, James	TP 385	Nagatsuka, Yasuko	WP 419
Morre, Jeff.	MP 481	Müllen, Klaus	WP 568	Nagpal, Shailender	MP 179
Morrell-Falvey, Jennifer L.	WP 428	Mullens, Conor	MP 034	Nagy, Istvan	ThP 487
Morrice, Nick	TOE pm 03:10	Mullens, Conor P.	ThP 135	Nahnsen, Sven	MP 289
Morris, Michael	WOB pm 03:50	Muller, Daniel	WP 504	Naiman, Daniel	ThOB pm 03:10
Morris, Pamela J.	TP 162	Muller, Lukas	TP 169	Naimy, Hicham	WP 297
Mortshire-Smith, Russell J.	WP 392	Müller, Bernd	ThP 418	Nairn, Angus C.	MP 396
Mosca, Andrea	TP 509	Müller, Rolf	WP 352	Naito, Yasuhide	MP 075
Moseley, Arthur	ThP 470	Mullerad, Michael	WP 358	Naito, Yasuhide	MP 074
Mosely, Jackie	TP 173	Mulligan, Christopher C.	WP 224	Najarro, Marcela C.	WP 234
Moser, Ann B.	ThP 309	Mulligan, Christopher C.	WP 024	Nakagawa, Hiroaki	MP 204
Moser, Markus	WP 474	Mulvana, Daniel	TP 243	Nakagawa, Mariko	TP 505
Moses, Harold L.	ThP 471	Mulvana, Daniel E.	TP 244	Nakajima, Chihiro	TP 505
Moskovets, Eugene	TP 036	Mulvana, Daniel E.	ThP 302	Nakajima, Yoji	ThP 241
Moskovets, Eugene	MP 378	Munce, Teresa	TP 549	Nakamura, Akihiro	ThP 431
Mossine, Valeri V.	ThP 287	Munger, Joshua	MP 281	Nakamura, Megumi	WP 213
Motherhill, Carmel E.	ThP 525	Muñoz, Mr. José Antonio	WP 255	Nakamura, Megumi	TP 386
Moton Nelson, Dwella	TP 282	Munske, Gerhard R.	MOB pm 05:10	Nakamura, Odete H.	WP 304
Motoyama, Akira	WP 261	Munske, Gerhard R.	MP 560	Nakamura, Takemichi	MP 121
Motoyama, Akira	TP 496	Munske, Gerhard R.	ThP 484	Nakamura, Tatsuji	TP 581
Mott, Tiffany M.	MP 322	Munske, Gerhard R.	ThP 474	Nakamura, Tatsuji	MP 429
Mottaz, Heather M.	WP 533	Muradymov, Marat	TOF am 09:15	Nakamura, Yukiko	WP 374
Mottaz, Heather M.	TP 281	Mural, Richard J.	TP 451	Nakanishi, Yuka	WP 403
Moulder, Robert	TP 461	Murari, Satish K.	TP 298	Nakano, Tomoyo	TP 476
Moura, Hercules	MOA am 10:15	Muratore, Justin	WOF am 09:15	Nakano, Tomoyo	ThP 472
Moura, Hercules	MP 321	Muratore, Tara L.	MP 458	Nakao, Ayami	TP 205
Moura, Hercules	MP 198	Murphy, Constance	ThP 159	Nakaya, Shuuichi	ThP 275
Mouttaki, Housna	ThP 527	Murphy, Constance M.	ThP 157	Nakaya, Shuuichi	WP 290
Moxley, Joel F.	WP 437	Murphy, Lisa	MP 352	Nakayama, Daisuke	TP 505
Moyer, Mary	ThP 470	Murphy, Robert	WOD pm 02:50	Nakayama, Daisuke	TP 497
Moyez, Dharsee	TP 305	Murphy, Robert C.	TP 185	Nakayama, Shoji	TP 133
Mrksich, Milan	TP 440	Murphy, Robert C.	TOC pm 02:50	Nakazawa, Takashi	TP 505
Mrotek, Sharon R.	WP 038	Murphy, Tara K.	ThP 529	Nakazawa, Takashi	TP 497
Muck, Alexander	ThP 043	Murray, Jacolin A.	WOF am 08:55	Nam, Hye In	ThP 474
Muddiman, David C.	TP 579	Murray, Kermit	TOG pm 04:10	Nam, Myung Hee	MP 581
Muddiman, David C.	MP 062	Murray, Kermit K.	ThP 019	Nam, Myung Hee	WP 177
Muddiman, David C.	TP 373	Murray, Kermit K.	MP 006	Napoli, Anna	WP 564
Muddiman, David C.	MP 085	Murray, Kermit K.	WP 099	Napoli, Anna	WP 141
Muddiman, David C.	MOE am 10:55	Murray, Kermit K.	MP 044	Napolitano, Michael P.	ThP 094
Muddiman, David C.	MP 050	Murray, Kermit K.	TP 319	Napolitano, Michael P.	WP 080
Muddiman, David C.	ThP 382	Murray, Kermit K.	WP 541	Narasimha, Ajay	MP 268
Muddiman, David C.	TOA pm 03:30	Murray, Kermit K.	ThP 161	Narasimhan, Chandra	MP 383
Muddiman, David C.	ThOF am 08:15	Muskat, Tassilo	ThP 032	Narasimhan, Sukanya	TP 538
Muddiman, David C.	ThP 481	Musselman, Brian	MP 015	Narayan, Srinivas	WOD am 09:55
Muddiman, David C.	ThP 016	Musselman, Brian	MP 018	Narcisse, Damien A.	MP 044
Muddiman, David C.	MP 065	Musselman, Brian	MP 017	Narimatsu, Hisashi	ThP 275
Muddiman, David C.	MP 016	Musselman, Brian	WOF pm 02:50	Narimatsu, Hisashi	TP 376
Muddiman, David C.	MP 020	Musselman, Brian D.	ThP 224	Narukawa, Masahiro	MP 139
Muddiman, David C.	TP 536	Musser, Steven	MP 315	Nash, John J.	TP 063
Mueller, Dieter R.	ThP 084	Musser, Steven M.	TOA am 08:35	Nash, John J.	TOE pm 04:10
Mueller, Gerhard-Anton	TP 446	Muster, Nemone	TP 363	Nassar, Ala F.	MP 247
Mueller, Lukas	WP 493	Musyimi, Harrison	WP 541	Natarajan, Rama	ThP 519

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Natarajan, Srividya	WOF am 09:35	Neyer, David W	ThP 185	Nirmalan, Niroshini	WP 473
Natera, Siria	ThP 405	Ng, Chee-Keng	MP 209	Nishijima, Keiko	TP 543
Nath, Avindra	MP 364	Ng, Lai-King	MP 319	Nishikaze, Takashi	ThP 039
Nath, Avindra	MP 583	Ngoka, Lambert C	WP 481	Nishikaze, Takashi	MP 120
Nath, Krishna	WP 004	Ng-Thow-Hing, Chris	ThP 531	Nishimura, Osamu	TP 497
Nativ, Ofer	WP 358	Nguyen, Anh	TP 441	Nishimura, Osamu	TP 505
Navarro Cerillo, Rafael M	ThP 272	Nguyen, Crystal	WP 178	Nishimura, Shin-Ichiro	MP 204
Nayak, Ranu	TP 012	Nguyen, Henry	WP 364	Nishimura, Toshihide	ThP 472
Naylor, Stephen	ThOF pm 02:50	Nguyen, Nghia H	MP 311	Nishimura, Toshihide	TP 476
Naylor, Stephen	TP 043	Nguyen, Nhu-An T	WP 413	Nishimura, Yoshifumi	TP 333
Nazabal, Alexis	TP 354	Nguyen, Paula	TP 501	Nishioka, Takaaki	ThP 167
Nazabal, Alexis	MP 555	Nguyen, Reno	ThP 450	Nishioka, Takaaki	ThP 165
Nazabal, Alexis	MP 082	Nguyen, Reno	TP 495	Nissilä, Teemu J	TP 020
Nazabal, Alexis	MP 337	Nguyen, Steve	MOE am 09:15	Nissum, Mikkel	ThP 451
Nazabal, Alexis	ThOG am 09:55	Ni, Fan	ThP 363	Nitschke, Sandra	ThP 468
Nazarian, Javad	ThP 456	Ni, Jinsong	TOD pm 03:30	No, Myoung-han	MP 142
Nazarov, Erkinjon	WP 108	Ni, Qihui	MP 293	Noble, William Stafford	WP 272
Nazarov, Erkinjon	MP 025	Nibbering, Nico M.M	WP 126	Noble, William Stafford	WP 265
Nazarov, Erkinjon G	WP 105	Nichols, Jason J	MP 500	Nofsinger, J. Brian	TP 249
Nazarov, Erkinjon G	ThOF pm 03:30	Nichols, William	TP 108	Nogoceke, Everson	MP 554
Ndao, Momar	TP 444	Nicholson, Jeremy	ThOD pm 03:30	Nokes, Sue E	WP 422
Ndao, Momar	TP 452	Nicholson, Larry	ThP 332	Nokes, Sue E	TP 212
Ndao, Momar	TP 435	Nickell, Stephan	ThP 487	Noll, Robert	WOF am 08:15
Ndao, Momar	MP 502	Nicol, Gordon	TP 441	Noll, Robert J	WP 224
Ndassa-Colday, Yasmine	WP 528	Nicolau, Andrei	MP 377	Noll, Robert J	ThP 148
Needham, Larry L	ThP 237	Nicolau, Andrei	TP 105	Noll, Robert J	WP 227
Neelissen, Jan	WP 257	Nicoll-Griffith, Deborah	WP 444	Noll, Robert J	WP 083
Nefliu, Marcela	WP 159	Nicora, Carrie D	TP 534	Nolte, Juergen	TP 468
Nefliu, Marcela	WP 035	Nie, Song	WP 529	Nomura, Masaharu	ThP 472
Neilson, Andrew P	WP 375	Nie, Zongxiu	ThP 054	Noon, Kathleen R	ThP 318
Neiss, Tom	WOB pm 03:50	Nielsen, Erik	TP 170	Noronha, Anne M	ThP 336
Nelsestuen, Gary	MP 520	Nielsen, Michael	TOB am 08:15	Norris, David	TP 555
Nelson, Clark J	WP 363	Nielsen, Michael L	ThOB pm 03:50	Norris, Jeremy	WP 071
Nelson, Dwella M	ThP 485	Nielsen, Michael L	TP 307	Norris, Jeremy L	WP 192
Nelson, Janet H. L	TP 096	Niemann, Scott	TP 101	Noskov, Sergei	TP 338
Nemes, Peter	MOE am 09:35	Niemeyer, Dagmar	TP 439	Novak, Jan	TP 389
Nemeth, Jennifer F	TP 428	Niessen, W.M.A	WP 346	Novak, Ted	ThP 058
Nemeth, Jennifer F	TP 419	Niessen, Wilfried M. A	WP 247	Novoselov, Konstantin P	MP 060
Nemeth, Jennifer F	TP 399	Nieves, Edward	TP 156	Novotny, Milos	ThP 286
Nemirovskiy, Olga V	MP 155	Nieves, Edward	TP 537	Novotny, Milos	TP 393
Nemoto, Atsushi	WP 027	Nigg, Erich A	ThOA am 09:55	Novotny, Milos V	TP 193
Nemoto, Atsushi	TP 117	Nihei, Yoshito	ThP 167	Novotny, Milos V	TP 203
Neri, Dario	MP 472	Nikolaev, E.N	MP 023	Novotny, Milos V	ThP 394
Nesbitt, Chandra	TP 576	Nikolaev, Eugene	MP 069	Novotny, Milos V	TP 372
Nesvizhskii, Alexey I	WP 281	Nikolaev, Eugene	TP 085	Novotny, Milos V	ThP 385
Neta, Pedatsur	TP 174	Nikolaev, Eugene	MP 419	Novotny, Milos V	ThP 264
Nettles, Kendal W	WOC pm 02:30	Nikolaev, Eugene	MP 141	Novotny, Milos V	ThP 454
Neubert, Reinhard H. H	MP 376	Nikolaidis, Natasha	WP 391	Novotny, Milos V	MOC am 10:55
Neubert, Thomas A	WP 532	Nikolau, Basil	TOC pm 03:10	Novotny, Milos V	TP 317
Neubert, Thomas A	ThP 524	Nikolic, Dejan	WP 407	Novotny, Milos V	ThP 250
Neubert, Thomas A	ThP 517	Nikolic, Dejan	ThOD pm 02:30	Novotny, Milos V	MP 283
Neubert, Thomas A	MP 200	Nikolic, Dejan	WP 387	Novotny, Milos V	WP 303
Neubert, Thomas A	MP 545	Nikoulina, Svetlana	MP 379	Novotny, Milos V	TP 155
Neubert, Thomas A	MP 569	Niles, Richard	MP 513	Novotny, Milos V	WP 317
Neuhaus, Eva	ThP 414	Nilsson, Anna	ThP 095	Novotny, Milos V	MP 206
Neuhaus, Eva	MP 467	Nilsson, Anna	MP 371	Novotny, Milos V	MP 309
Neupert, Susanne	MP 367	Nilsson, Anna	WP 069	Novotny, Milos V	TP 392
Neusuess, Christian	WP 311	Nilsson, Anna	MP 370	Nowroozi, Farnaz	WP 371
Neuteboom, Berend	ThP 303	Nilsson, Carol	WP 497	Nuccio, Arthur	ThP 258
Neve, Richard M	ThP 532	Nilsson, Carol L	TP 538	Nuccio, Arthur	ThP 381
Neveu, John	ThP 186	Nilsson, Carol L	WP 421	Nugent, Kerry	TP 573
New, Anthony	MP 009	Nilsson, Carol L	ThP 091	Nugent, Kerry	MP 579
Newburg, David S	WP 410	Nilsson, Erik J	TP 152	Nugent, Kerry	ThP 419
Newcomb, Lisa	TP 458	Nimkar, Subodh	ThOC pm 03:50	Nugent, Kerry D	MOF pm 05:10
Newland, Kirk	TP 242	Nimkar, Subodh	WP 305	Nunez, Alberto	ThP 072
Newland, Kirk	MP 275	Ninonuevo, Milady R	WP 302	Nussbaum, Robert L	TP 564
Newland, Kirk	MP 263	Ninonuevo, Milady R	ThP 187	Nutley, Bernard P	ThP 211
Newsome, G. Asher	ThP 077	Niñonuevo, Milady R	ThOB am 08:15	Nutman, Thomas B	TP 533
Newton, Paul	MP 008	Nirasawa, Takashi	MP 177	Nyadong, Leonard	MP 078
Newton, Russ	MP 296	Nirasawa, Takashi	ThP 093	Nyberg, Tamara	TP 374

Program Code: M, T, W, Th = Day O = Oral A, B, C, D, E, F, G = Session am = Morning, pm = Afternoon Time  
M, T, W, Th = Day P = Poster Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Nylin, Keith E.	WP 286	Okazaki, Koei	WP 374	Orlando, Ron	WP 258
Oakley, Paul	MP 030	Okazaki, Osamu	MP 288	Orlando, Ron	MP 537
Oakley, Paul	ThP 355	Okazaki, Osamu	WP 347	Orlando, Ron	TP 095
Obata, Kimimichi	MP 585	Okouchi, Shoichi	ThP 006	Orlando, Ron	MP 205
Oberlies, Nicholas H.	WP 403	Oktem, Berk	ThP 157	Orndorff, Rebecca L.	TP 126
Oberzaucher, Elisabeth	MP 309	Olah, Timothy	ThP 159	Orth, Kim	MP 393
O'Brien, Bart A.	ThP 011	Olah, Timothy	ThOD am 08:55	Orth, Peter	TP 390
O'Brien, John F.	MP 222	Olah, Timothy	WP 182	Ortiz, Pedro	ThP 447
O'Brien, Rob.	ThP 004	Olbris, Mark	MP 482	Orton, Daniel	TP 055
Ocampo, Manuela	TP 124	Old, William	ThP 410	Osborne, Michael J.	ThP 480
Ochola, Sila	TP 073	Oldham, John T.	ThP 510	Osborne, Michael J.	TP 328
O'Connell, Thomas	WOB pm 03:10	Olechnowicz, Michael	TP 124	Osborne, Michael J.	TP 547
O'Connor, C David.	MP 587	Oleschuk, Richard D.	TP 021	Osburn, Sandra	TP 073
O'Connor, C David.	TP 569	Olgesbee, Devin	MP 232	Osenga, Andrew M.	TP 250
O'Connor, Gavin	TP 173	Olia, Adam	WP 142	Oses-Prieto, Juan	TP 311
O'Connor, Peter B.	WOB am 08:55	Olinares, Paul Dominic B.	ThP 491	Osgood, Sarah M.	MP 303
O'Conner, Peter B.	MP 180	Oliphant, James R.	WOF am 08:55	O'Shea, K. Sue	TP 436
O'Conner, Peter B.	TP 196	Oliver, Eric	MP 261	O'Shea, K. Sue	WOA pm 03:30
O'Conner, Peter B.	MP 104	Oliver, Julie M.	ThP 461	Osprian, Ingrid	WP 368
O'Conner, Peter B.	MP 055	Olivier, Michael	MP 546	Osterhaus, Albert D.M.E.	ThOB am 08:55
O'Conner, Peter B.	MP 127	Olivier, Michael	ThP 228	Osterman, Andrei	MP 450
O'Conner, Peter B.	WP 462	Olivier, Michael	TP 380	Osuga, Junichi	MP 143
O'Conner, Peter B.	WP 410	Olivova, Petra	MP 580	Osuga, Junichi	ThP 241
O'Conner, Peter B.	MP 054	Olivova, Petra	ThP 402	Othman, Essam el-dine R.	ThOB am 09:55
Oda, Yoshiya	TP 581	Olsen, Jesper V.	ThOA am 09:55	O'Toole, Margot	TP 368
Oda, Yoshiya	MP 429	Olsen, Jesper V.	ThOB pm 04:10	Ottens, Andrew K.	TP 500
Odajima, Junko	WP 528	Olsen, Jesper V.	ThP 514	Ottens, Andrew K.	TP 443
Oe, Tomoyuki	MP 279	Olsen, Jesper V.	TP 307	Oudgenoeg, Gideon	WP 405
Oe, Tomoyuki	MP 417	Olsen, Jesper V.	ThP 408	Ousmanou, Djibril	TP 147
Oeljeklaus, Silke	MP 467	Olsen, L.Y.	ThP 171	Ouvry-Patat, Severine A.	TOA pm 02:30
Oesterhelt, Dieter	ThP 505	Olsen, Rick	MP 275	Ouyang, Fred	TOD pm 03:30
Oestreich, Sonja	MP 354	Olson, Douglas J.H.	WP 415	Ouyang, Zheng	WP 093
Ofman, Rob	TP 468	Olson, Douglas JH.	WP 339	Ouyang, Zheng	TP 040
Ogata, Yoshiyuki	WP 374	Olson, Loren	TP 233	Ouyang, Zheng	TP 032
Ogawa, Kiyoshi	ThP 106	Olson, Loren	WP 329	Ouyang, Zheng	TP 030
Ogawa, Kiyoshi	MP 099	Olson, Loren	WP 253	Ouyang, Zheng	TP 037
Ogden, Michael W.	ThP 310	Olson, Loren Y.	ThP 375	Ouyang, Zheng	ThP 148
Ogden, Michael W.	WP 557	Olson, Matthew T.	MP 197	Ouyang, Zheng	WOF am 08:15
Ogorzalek Loo, Rachel	TP 395	Olson, Matthew T.	MP 191	Overdorf, Gary	MP 313
Ogorzalek Loo, Rachel R.	ThP 398	Olumee-Shabon, Zohra	ThP 440	Overdorf, Gary W.	MP 304
Ogorzalek Loo, Rachel R.	WP 523	Olumee-shabon, Zohra	MP 542	Ow, Saw Yen	MP 572
Ogorzalek Loo, Rachel R.	ThP 439	O'Mullan, Patrick	TP 351	Owen, John S.	MP 533
Oguma, Toshihiro	MP 288	O'Neill-Slawecki, Stacy	WP 133	Owens, Elizabeth T.	WP 428
Ogurtsov, Aleksey	ThP 253	Ondrey, Frank G.	WOA pm 02:30	Owens, Kevin	WP 038
Ogurtsov, Aleksey	MP 185	Ong, Shao-en	TOA am 09:55	Owens, Kevin G.	WP 040
Oh, Cheolhwan	ThP 173	Ong, Voon	WP 330	Ozabal, Can C	MOD am 10:15
Oh, Geum-soon	ThP 239	Onnerfjord, Patrik	TP 551	Ozaki, Junko	ThP 261
Oh, Joo Yeon	MP 294	Ono, Yukiko	ThP 114	Ozawa, Masatomi	TP 123
Oh, Phil	ThP 496	Onorato, Joelle	WP 301	Ozdemir, Abdil	MP 080
Oh, Phil	MP 470	Onsongo, Getiria	WOA pm 02:30	Ozer, Josef S.	MP 511
O'Hair, Richard A. J.	WOF pm 02:30	Onsongo, Getiria	ThOB am 08:35	Ozlu, Nurhan	TP 515
O'Hair, Richard AJ	TP 072	Oomens, Jos	MP 119	Ozols, Victor V.	WP 048
Ohkawa, Takashi	WP 126	Oomens, Jos	ThOG pm 04:10	Pace, Ellen	TP 232
Ohkawa, Tomoyuki	ThP 102	Oomens, Jos	MP 134	Pace, Ellen	WP 409
Ohkubo, Masataka	MP 089	Oomens, Jos	ThOG pm 03:30	Padias, Anne	TP 110
Ohlund, Leanne	ThP 503	Oomens, Jos	MP 117	Padliya, Neerav D.	TP 560
Ohman, Johan	WP 517	Oomens, Jos	MP 107	Paek, Eunok	WP 287
Ohnmacht, Corey	TP 240	Oomens, Jos	ThOG pm 03:50	Paek, Eunok	WP 278
Ohnuma, Sumiko	MP 433	Oommen, Anna	TP 276	Page, David	TOE am 09:35
Ohnuma, Sumiko	ThP 431	Ooms, Bert	ThP 030	Page, Jason S.	MOE am 09:55
Ohnuma, Sumiko	MP 443	Oppenheimer, Stacey R.	TP 447	Pagels, H. Joakim	MP 137
Ohnuma, Takao	ThP 177	Oresic, Matej	TP 461	Paglia, Giuseppe	WP 008
Ohorodnik Ph.D, Susan K.	MP 276	Oresmaa, Larisa	ThP 075	Painter, Alexander James	WP 158
Ohta, Satoko	MP 177	Organisciak, Daniel T.	MP 549	Paizs, Bela	TP 089
Ojima, Noriyuki	MP 027	Orjala, Jimmy	TOD pm 03:10	Paizs, Bela	TP 077
Ok, Myung-Ahn	WP 183	Orlando, Ron	ThP 387	Paizs, Bela	ThOG pm 03:30
Oka, Mutsumi	TP 505	Orlando, Ron	ThP 258	Paizs, Bela	TP 081
Okada, Kyoko	WP 126	Orlando, Ron	ThP 381	Pakrasi, Himadri B.	TP 534
Okamura, Taka-aki	TP 505	Orlando, Ron	WP 299	Palacios, Gustavo	MP 326
Okamura, Taka-aki	TP 497	Orlando, Ron	ThP 386	Palacios, Igor	WOD am 08:15

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Palagi, Patricia M.	TP 165	Parker, Carol E.	TP 567	Pawley, Norma H.	WOD am 09:15
Palaima, Elizabeth	MP 208	Parker, Carol E.	TP 412	Payne, Gary A.	TP 579
Palamalai, Vikram	MP 549	Parker, Carol E.	WP 490	Payne, Gary A.	TP 536
Palamalai, Vikram	MP 447	Parker, Carol E.	WP 554	Payne, Joseph	WP 342
Palandra, Joe	TP 142	Parker, Charles B.	WOF am 09:35	Pearson, Terry	ThP 513
Palanivelu, Ravishankar	TP 296	Parker, Kenneth	MP 538	Pearson, Wright	MP 090
Palcic, Monica M.	ThOC am 09:55	Parker, Kenneth C.	WP 503	Peay, Marllking	MP 160
Palczewski, Krzysztof	WOC pm 04:10	Parkinson, Erika P.	TP 569	Pedder, Randy	ThP 058
Paleari, Renata	TP 509	Parkinson, Erika P.	MP 587	Pedersen, Christian	WP 098
Pallari, Hanna-Mari	TP 524	Parks, Bryan A.	ThOF am 09:55	Pedrioli, Patrick	MP 472
Palmblad, Magnus	ThP 117	Parks, Bryan A.	MP 559	Peer, Cody J.	WP 230
Palmblad, Magnus	ThP 040	Parks, Bryan A.	WOA am 08:35	Pegg, Anthony E.	TOC am 09:55
Palmblad, Magnus	ThP 116	Parks, Joel H.	MP 478	Pekar, Tonya	MP 389
Palmer, Joanne	MOG am 09:55	Parks, Joel H.	WP 145	Pekar, Tonya	TP 450
Palumbo, Amanda M.	TP 076	Parmalee, David	TP 441	Pellerin, Brigitte	MP 255
Pan, Chongle	MP 431	Parnes, Howard	ThP 294	Pelletier, Dale A.	WP 428
Pan, Cuiping	ThP 408	Parr, Carol E.	WP 449	Pelletier, Dale A.	MP 423
Pan, Hongna	TOB pm 03:30	Parr, V C	ThP 065	Pellin, Michael	WOG pm 03:10
Pan, Jiongwei	ThP 203	Parr, V C	ThP 413	Pellin, Michael J.	MP 031
Pan, Peng	TP 423	Parr, V C	WP 046	Pellitteri-Hahn, Molly C.	MP 546
Pan, Sophie	MP 248	Parsons, Zach	MP 107	Peltoniemi, Hannu	ThP 257
Pan, Zhengzheng	MP 299	Parthun, Mark R.	TP 268	Pelzer, Mary	TP 237
Pancerella, Carmen	TP 337	Parviainen, Ville	ThP 267	Pelzer, Mary	WP 320
Panchalingam, Krishna	TP 571	Pasa-Tolic, Ljiljana	ThOE pm 03:30	Pelzing, Matthias	WP 311
Panchaud, Alexandre	TP 308	Pascal, Bruce D.	ThOA pm 03:30	Pelzing, Matthias	WP 213
Panda, Saroj K.	MP 146	Pascal, Bruce D.	WP 262	Peng, Ivory X.	TP 032
Panda, Saroj K.	TOG am 08:35	Pascal, Bruce D.	TP 329	Peng, Junmin	MP 462
Pandinathan, Lakshmi	MP 270	Pascal, Bruce D.	WOC pm 02:30	Peng, Kang	ThP 088
Pandey, Akhilesh	ThP 417	Pasch, Harald	TP 131	Peng, Lijuan	ThP 044
Pang, Shaokun	ThP 160	Pasilis, Sofie P.	WP 005	Peng, Liming	WP 571
Pannell, Lewis	ThP 262	Pasilis, Sofie P.	WP 014	Peng, Liming	ThP 297
Pannell, Lewis K.	TP 375	Patel, Alpesh A.	ThP 252	Peng, Wen-Ping	WP 119
Pannell, Lewis K.	TP 542	Patel, Milan	WP 167	Pengson, Joshua	MP 227
Panse, Christian	MP 387	Patel, Milan	WP 309	Penn, Dustin J.	MP 309
Paoletti, Andrew C.	MP 570	Patel, Nayan	MP 276	Pennathur, Subramaniam	WP 357
Papadopoulou, Aggeliki	TP 469	Patel, Rekha	ThP 031	Pennathur, Subramaniam	ThP 318
Papanastasiou, Dimitrios	TP 046	Patel, Rekha	TP 047	Penning, Trevor M.	WP 380
Papanastasiou, Dimitris	WP 089	Paterson, Clare	ThP 355	Pennington, Christopher	WP 393
Papanastasiou, Dimitris	WP 091	Paterson, Clare	MP 030	Pennington, Christopher L.	MP 424
Papanastasiou, Dimitris	MP 040	Patil, Sachin	TP 344	Pennington, Christopher L.	WOE am 08:35
Papapetropoulos, Andreas	MP 434	Patkar, Kshitij A.	MP 412	Perala, Adam	ThP 186
Papayannopoulos, Ioannis	ThP 260	Patney, Heather L.	TP 451	Perala, Adam W.	TP 029
Papoulias, Panagiotis G.	ThP 162	Paton, Norman	TP 159	Perala, Adam W.	MP 267
Papoulias, Panagiotis G.	TP 149	Patrick, Jeff	WP 561	Perala, Adam W.	WP 199
Papp, Robert	WP 444	Patrick, Jeffery S.	TOA am 08:15	Perdian, David C.	WP 366
Pappin, Darryl	TOA am 09:15	Patrie, Steven M.	TP 440	Perdivara, Irina	ThP 276
Papson, Kaitlin	WP 242	Patterson, Garth	TP 026	Pereira, Michael	WP 375
Paraschiv, Gabriela Ioana	ThP 473	Patterson, Garth	WOF am 08:35	Pereira-medrano, Ana G.	TP 528
Paraschiv, Gabriela Ioana	ThP 475	Patterson, Garth E.	TOG pm 02:30	Perez, Jose J.	ThP 237
Pardo, Carlos	MP 583	Patterson, Jeffrey	WP 552	Pergantis, Spiros	WOG pm 03:50
Park, Ah Yeon	ThP 348	Patterson, John	ThP 405	Perkins, Brittany	WOE pm 03:10
Park, Christopher	WP 265	Patterson, Laurence	ThP 444	Perkins, Brittany R.	ThOG pm 03:10
Park, Eun Su	TP 106	Patterson, Scott D.	WP 484	Perkins, Patrick D.	TP 420
Park, Gregory H.J.	MP 299	Patterson, Thomas	TP 515	Perkins, Patrick D.	ThOB am 08:15
Park, Gun Wook	MP 581	Patterson, Thomas	WP 503	Perkins, Patrick D.	ThP 187
Park, Heejin	WP 278	Patterson, Tom	WP 274	Perkins, Patrick D.	WP 302
Park, Ji SOOK	ThP 516	Patton, Wanye F.	TP 471	Perlman, David	MP 180
Park, Jung OK	ThP 497	Patton, Wayne F.	MP 397	Perlman, David H.	ThP 271
Park, Kun Wook	MP 541	Patwa, Tasneem H.	ThP 412	Perlman, David H.	ThP 528
Park, Kunsoo	WP 278	Patwa, Tasneem H.	WOA pm 02:50	Perlman, David H.	TOE am 09:15
Park, Kyoungsook	TP 381	Patwa, Tasneem H.	ThP 389	Perlman, David H.	TP 154
Park, Melvin A.	MP 019	Paul, Angela	MP 374	Perlman, David H.	WP 496
Park, Sung Kyu	TP 160	Paul, Catherine	TP 385	Perlman, David H.	ThP 035
Park, Sung Kyu	TP 163	Pauli, Guido	WP 387	Perlman, David H.	TP 406
Park, Sung Kyu	MOA pm 04:10	Pauli, Guido F.	WP 407	Permann, Cody	TP 539
Park, Sun-Hee	ThP 395	Paulovich, Amanda	WP 552	Perminova, Irina V.	MP 141
Parker, Carol E.	ThP 425	Paulus, Aran	ThP 532	Perna, Avi	MP 456
Parker, Carol E.	TP 499	Pavelka, Norman	TP 303	Perou, Charles M.	WP 490
Parker, Carol E.	TP 553	Pavkova, Ivona	TP 372	Perreault, Helene	TP 517
Parker, Carol E.	MP 335	Pavlakis, Kitty	WP 483	Perreault, Hélène	TP 209

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Perrera, Claudia	ThP 432	Pieber, Thomas R.	MP 228	Plumb, Robert	ThOD pm 03:30
Perrodou, Emmanuel	WP 504	Piechura, Heike	ThP 414	Plump, Andrew	WP 308
Perrodou, Emmanuel	TP 494	Piening, Brian	WP 552	Poch, Olivier	TP 494
Perry, Richard H.	WP 159	Piepponen, Petteri	TP 223	Poch, Olivier	WP 504
Perry, Richard H.	WP 083	Pierce, Karisa M.	ThP 270	Pociot, Flemming	WP 530
Perry, Robert L. S.	MP 400	Pierce, Kerry A.	ThP 321	Podany, Anthony	TP 238
Peru, Kerry M.	ThOG am 09:15	Pierce, Sarah E.	WP 449	Podany, Anthony	TP 240
Peru, Kerry M.	WP 223	Pierce, Sarah E.	WP 440	Podolskaya, Ekaterina	MP 079
Pesavento, James J.	TOB am 09:35	Pietenpol, Jennifer A.	TP 453	Podtelejnikov, Alexandre	TP 167
Pesek, Joseph	WP 377	Pieterse, JW	WP 341	Podtelejnikov, Alexandre	TP 170
Peter-Katalinic, Jasna	ThP 284	Pieterse, JW	WP 324	Podtelejnikov, Alexandre	WOA pm 03:50
Peter-Katalinic, Jasna	TP 377	Pike, Andrew	TOD pm 03:50	Pohl, C.	TP 204
Peter-Katalinic, Jasna	ThP 285	Pike, Victor W.	WP 389	Pohlentz, Gottfried	TP 377
Peter-Katalinic, Jasna	TP 207	Pikulski, Michael	TP 191	Pohlentz, Gottfried	TP 207
Peterman, Scott	MP 052	Pimenov, Alexandre	ThP 209	Poirier, Guy	MP 585
Peterman, Scott	MP 258	Pimenova, Tatiana	MP 337	Pól, Jaroslav	TOF pm 04:10
Peters, Eric C.	MP 551	Pineau, Charles G.	TP 147	Polasek, Miroslav	MP 103
Petersen, Mary	TP 238	Pingerelli, Peter L.	WP 048	Polce, Michael	TP 125
Peterson, Richard E.	MP 573	Pingitore, Francesco	WP 371	Polce, Michael J.	TP 115
Petit, Vanessa	TP 284	Pinheiro, Teresa J T.	TOD am 08:15	Polce, Michael J.	MP 010
Petr, Frycak	WP 406	Pinkse, Martijn	MP 527	Polce, Michael J.	MOG pm 04:50
Patrick, Martin	TOF am 08:55	Pinkse, Martijn	MP 368	Polce, Michael J.	TP 124
Petritis, Konstantinos	WP 510	Pinkse, Martijn	TP 498	Polfer, Nick	MP 119
Petropoulou, Syrago Styliani E.	TP 133	Pinkse, Martijn	MP 394	Polfer, Nick	MP 107
Petrotchenko, Evgeniy	MOB pm 03:50	Pinkse, Martijn W.	ThP 091	Polfer, Nick	MP 192
Petrov, Alexey	MOA pm 03:30	Pinkston, David S.	TOG am 09:55	Polfer, Nick C.	ThOG pm 03:30
Petrovic, Mira	ThOG am 08:35	Pintard, Lionel	WP 475	Polfer, Nick C.	ThOG pm 04:10
Petucci, Chris	MP 018	Pinto, Devanand M.	MP 552	Polfer, Nick C.	ThOG pm 03:50
Petzold, Christopher	MP 331	Pionnier, Karine	WP 147	Polfer, Nick C.	MP 134
Petzold, Christopher J.	MOC am 10:35	Pipes, Gary	ThP 388	Polfer, Nick C.	MP 117
Petzold, Christopher J.	WP 429	Pipes, Gary	WOA am 09:35	Poliak, Marina	ThP 238
Petzold, Christopher J.	MP 320	Pipes, Gary D.	ThP 280	Poliakov, Anton	WOC pm 03:30
Pevzner, Pavel	MP 450	Pipkorn, Rüdiger	MP 402	Pollard, Mathew	TP 058
Pevzner, Pavel	WP 283	Pirali, Olivier	MP 134	Pollard, Mathew	ThOG pm 02:30
Pevzner, Pavel	ThP 087	Pirkle, James L.	MOA am 10:15	Pollard, Mathew J.	TP 048
Pevzner, Pavel	ThOB pm 02:50	Pirkle, James L.	MP 198	Polley, A J.	WP 046
Pevzner, Pavel A.	ThP 248	Pirkle, James L.	TOG pm 03:50	Polley, Alexis	MP 328
Pezeshk, Vida	TP 433	Pirkle, Jim L.	MP 321	Polyakova, Marina	TP 098
Pezzuto, John M.	WP 383	Pisciotta, John M.	MP 295	Polyakova, Olga	TP 098
Pflieger, Delphine	ThOA am 08:55	Pitkänen, Juha-Pekka	ThP 267	Pomerantz, Steven C.	TP 419
Pham, Catherine	ThP 221	Pitman, Mark	WP 515	Pomerantz, Steven C.	TP 428
Pham, Roger	WP 185	Pitt, Andrew R.	TP 285	Pomies, Christelle	TP 322
Phan, Samantha	ThP 288	Pitteri, Sharon	WP 495	Pomies, Christelle	WP 538
Phanstiel, Doug	MOF pm 04:50	Pitteri, Sharon J.	TP 458	Pomiès, Christelle	WP 200
Phanstiel, Doug	MP 124	Pittner, Richard	MP 379	Pommier, Yves	ThOA am 08:35
Phanstiel, Doug	TP 458	Pittock, Paula	MP 562	Pontes, Edson	ThP 294
Phanstiel, Doug	TOB am 09:55	Pittock, Paula P.	WP 518	Poole, Farris	WP 434
Phark, sohee	MP 581	PJ Bennett, Hugh	MP 502	Poole II, Farris L.	WP 423
Phelps, Mitch	TP 251	PJ Bennett, Hugh	WP 513	Pope, Marshall	MP 436
Philip, Szekeres	TOA am 08:15	PJ Bennett, Hugh	TP 435	Pope, Marshall	TP 457
Phillips, Julian	ThP 347	PJ Bennett, Hugh	WP 489	Pope, Marshall	WOD pm 03:50
Phillips, Lawrence R.	ThP 354	PJ Bennett, Hugh	MP 518	Pope, Marshall	ThP 464
Phillips, Matthew	MP 179	PJ Bennett, Hugh	WP 520	Pope, Marshall	ThP 534
Phillips, Michael	WP 471	Plakas, Steven M.	WP 386	Popko, Jonathan	WOA pm 02:30
Phillips, Ryan M.	ThP 483	Plasencia, Manolo	ThP 286	Popko, Jonathan	ThOB am 08:35
Phillips, Ryan M.	TP 371	Plasencia, Manolo D.	ThP 278	Popov, Alexander	MP 069
Phinney, B. S.	TP 359	Plasencia, Manolo D.	TP 044	Popov, I.A.	MP 023
Phung, Qui	TP 279	Plasencia, Manolo D.	ThOF pm 02:50	Popov, Igor A.	MP 141
Piasek, Jeffrey R.	WOF am 09:35	Plass, Wolfgang R.	TOF am 08:55	Popov, Igor A.	MP 419
Picard, Pierre	WP 246	Plattner, Jake J.	WP 335	Popov, Igor A.	TP 085
Picard, Pierre	WP 229	Pleißmann, Uwe	MOB pm 04:30	Popov, Irene	ThP 211
Picard, Pierre	ThP 227	Plessmann, Uwe	ThP 407	Popp, Maryna	ThP 073
Picard, Pierre	ThP 217	Plewa, Michael J.	TP 095	Porambo, Richard J.	WP 043
Picard, Pierre	ThP 027	Plomley, Jeffrey	ThP 209	Portelius, Erik	MP 033
Picard, Pierre	ThP 112	Plowman, Jeffrey E.	ThP 111	Porter, Ned	WP 071
Pickett, Siobhan	WP 069	Plows, Fiona	WP 209	Poschmann, Gereon	WP 555
Pickett, Siobhan C.	WP 054	Plows, Fiona	TP 437	Possemiers, Sam	WP 387
Pickl, Karin E.	MP 228	Plows, Fiona	MP 386	Post, Jeremy	MOF am 09:55
Picotti, Paola	MP 558	Plumb, Rob	TP 349	Post, Jeremy	WP 411
Pieber, Thomas R.	WP 195	Plumb, Robert	TP 261	Postl, Doug	MP 326

Program Code: M, T, W, Th = Day O = Oral A, B, C, D, E, F, G = Session am = Morning, pm = Afternoon Time  
M, T, W, Th = Day P = Poster Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Pottenger, Lynn H.	MP 344	Przybylski, Michael	ThP 475	Rahbar, Amir	MP 468
Potts, Alexandra	ThP 512	Przybylski, Michael	MP 330	Rahman, Mohammed A.	TP 293
Potts iii, Warren	TP 261	Przybylski, Michael	ThP 473	Rahn, Stefan	TOB pm 03:50
Poulovassilis, Alex	TP 159	Ptak, Celeste	ThP 307	Raida, Manfred	MP 437
Pourshahian, Soheil	WP 442	Pu, Dan	ThP 066	Rainczuk, Adam	TP 435
Poutsma, John C.	MP 091	Pu, Quan-long	TP 174	Rainer, Matthias	WP 041
Poutsma, John C.	WP 135	Pufong, Boris	MP 264	Rainville, Paul	ThOD pm 03:30
Poutsma, John C.	ThP 062	Pugh, Coleen	TP 115	Rajabi, Negar	WP 131
Powell, David	TP 007	Pugh, Michael	MP 313	Rajabi, Negar	WP 134
Powell, David H.	TP 216	Pullen, Frank	MP 030	Rajasekaran, Agnita	MP 265
Powell, David H.	ThP 232	Pullen, Frank	ThP 355	Rajesh, Mathur	TP 375
Powell, David H.	WP 018	Puolitaival, Satu M.	ThP 105	Raji, Misjudeen	MP 413
Powell, David H.	WP 011	Purcell, Jeremiah M.	MP 149	Rak-Banville, Justin M.	TP 209
Powley, Charles R.	ThP 133	Purcell, Jeremiah M.	MP 068	Rakov, Igor	ThP 340
Pozdneev, Alexander	MP 069	Purcell, Jeremiah M.	TOG am 08:15	Ralston-hooper, Kimberly J.	WP 207
Pozniak, Boguslaw P.	WP 031	Purkayastha, Subhasish	WP 305	Ramachandran, Prasanna	MP 515
Prabhakar?, Sunil	TP 171	Purnat, Tina	WP 556	Ramachandran, Prasanna	ThP 398
Prakash, Amol	WP 553	Purup, Stig	ThP 109	Ramadan, Ziad	WP 362
Prakash, Chandra	WOB pm 03:10	Purves, Randall	TP 338	Ramage, Paul	WP 152
Prakobphol, Akraporn	WP 293	Purvine, Samuel O.	WP 533	Ramagiri, Suma	ThP 340
Pramanik, Birendra	MP 274	Purvine, Samuel O.	WP 280	Ramanathan, Arvind	WOD am 08:15
Pramanik, Birendra	TP 263	Puzanov, Igor	MP 314	Ramirez-Rodriguez, Verence	TP 315
Pramanik, Birendra N.	TP 390	Pyatkovskyy, Yuriy	WP 110	Ramos, Alexis	ThP 543
Pramanik, Birendra N.	TP 259	Qi, Phoebe	ThP 072	Ramos Catharino, Rodrigo	WP 020
Prasad, Satendra	ThP 270	Qi, Ying	ThP 347	Ramsahoye, Bernard	TP 270
Prasad, Swati	WOC pm 02:30	Qian, Jiang	MP 325	Ramsay, Steven L.	WP 368
Prasad, Swati	ThOA pm 03:30	Qian, Jie	MP 340	Ramsay, Steven L.	WOD am 08:35
Pratt, Brian S.	TP 152	Qian, Kuangnan	TOG am 09:55	Ramsgaard, Brian	TP 170
Prazen, Bryan J.	TP 152	Qian, Meiqian	MOA pm 04:30	Ramström, Margareta	WOA pm 04:10
Predel, Reinhard	MP 367	Qian, Wei-Jun	TP 518	Rana, Gaurav S.	MP 350
Predki, Paul	MP 436	Qian, Yuwei	ThP 121	Rana, Hemlata	TP 560
Predki, Paul	ThP 464	Qiao, Hui	MP 026	Randall, Vickery T.	ThP 035
Predki, Paul	ThP 534	Qiao, Zhiqing	TP 236	Randlett, Christopher J.	ThP 203
Prest, Harry	ThP 246	Qin, Feng	TP 097	Raney, Kevin D.	MP 382
Preston, Gloria A.	MP 335	Qin, Feng	MP 151	Rangiah, Kannan	ThOD am 09:15
Prevelige, Peter E.	WOC pm 03:30	Qiu, Haibo	ThP 479	Rannulu, Nalaka	MP 112
Prevelige, Peter E.	MP 491	Qiu, Ruiqing	ThP 495	Rao, Arundhati	ThP 455
Prevelige, Jr., Peter E.	TP 357	Qiu, Yinghua	ThP 389	Rao, Chandra Sekhar	MP 549
Pribil, Patrick	TP 208	Qiu, Yongchang	TP 368	Rao, Jaya V.	ThP 270
Pribil, Patrick	ThP 509	Qu, Jun	ThP 299	Rao, Vikram	ThP 423
Price, Douglas K.	WP 169	Qu, Yang	ThP 299	Rapole, Srikanth	TP 356
Price, Erika	ThP 376	Quadroni, Manfredo	ThP 512	Raptakis, Emmanuel	WP 435
Price, Erika	TP 486	Quang, Changyu	WP 323	Raptakis, Emmanuel	TP 079
Price, Jason	ThP 360	Quarmby, Valerie E.	MP 336	Raptakis, Emmanuel	WP 091
Price, Neil P.	TP 200	Quinlivan, Eoin P.	ThOB am 09:15	Raptakis, Emmanuel	MP 027
Price, Philip C.	TP 116	Quinn, Conrad P.	MOA am 10:15	Rashidzadeh, Hassan	MP 262
Price, William D.	WP 129	Quinn, John P.	MP 063	Rasoloson, Dominique	MP 295
Prickett, Keith B.	ThP 133	Quinn, John P.	MP 072	Rasulev, Utkur	MP 025
Pridatchenko, Marina L.	TP 144	Quinton, Loïc	TOE am 09:55	Rasulev, Utkur	TP 031
Prien, Justin M.	MP 211	Quinton, Loïc	WOA am 09:55	Ratnayake, Chitra K.	WP 201
Prieto, DaRue A.	TOB pm 03:30	Quintos, Marianne T.	MP 227	Ratnikov, Boris I.	ThP 429
Prieto, DaRue A.	ThP 466	Quirk, Roderic P.	TP 124	Rau, Kristi S.	TP 582
Prieto, Marilyn	TP 007	Quong, Judy	ThP 495	Raulfs, Mary Disa	ThP 062
Prieto, Marilyn	TP 006	Raabe, Monika	ThP 407	Raulfs, Mary Disa	MP 091
Prieto Conaway, Mari	ThP 103	Raabe, Monika	MOB pm 04:30	Rauniyar, Navin	MP 457
Prieto Conaway, Maria C.	WP 062	Rabinowitz, Joshua	MP 281	Rausch, Jason W.	WP 163
Pringle, Steven D.	MP 073	Rabinowitz, Joshua D.	ThOA pm 03:10	Rauter, Amélia	WP 408
Proess, Gottfried	TP 299	Rabitz, Herschel A.	ThOA pm 03:10	Ravikumar, RangaswamyRao	TP 445
Prokaeva, Tatiana	MP 475	Räder, Hans Joachim	WP 568	Ravipaty, Shobha	TP 544
Prokaeva, Tatiana	TP 407	Radford, Sheena E.	WP 151	Ray, Gene F.	WP 334
Prokai, Laszlo	TP 137	Radivojac, Predrag	ThP 088	Ray, Kenneth	TP 128
Prokai, Laszlo	MP 457	Radivojac, Predrag	WP 270	Ray, Steven	WP 064
Prokai-Tatrai, Katalin	MP 457	Radivojac, Predrag	TP 317	Ray, Steven J.	TOF pm 02:50
Proschogo, Nicholas W.	WP 412	Radivojac, Predrag	ThP 264	Ray, Steven J.	WOG pm 02:50
Prosser, Simon	WP 409	Raetz, Christian R. H.	MOC am 09:15	Ray, Steven J.	WOG pm 04:10
Prosser, Simon J.	WP 506	Raffaelli, Andrea	MP 214	Ray, Stuart	ThP 262
Protasevich, Irina	WOC pm 03:30	Raffaelli, Andrea	MP 220	Razumovskaya, Jane	ThP 159
Prunier, Richard	MP 043	Raftery, Daniel	MP 299	Rebec, George V.	TP 462
Przyborowska, Anna M.	MP 223	Raetz, Mark J.	TP 580	Rebecchi, Kathryn R.	ThP 400
Przybylski, Michael	ThP 276	Ragnhildstveit, Erlend	MP 436	Rebuffat, Sylvie	TP 284

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Redding, Alyssa M.	TP 546	Ren, Chen	TP 251	Rinaldo, Piero	MP 232
Reddy, Ashok P.	MP 427	Ren, Chen	ThOA am 09:15	Rinehart, Jesse	MP 435
Reddy, Ashok P.	TP 271	Ren, Da	TP 408	Ringeling, Peter	ThP 205
Reddy, G. Satyanarayana	TP 218	Ren, Da	TP 273	Ringquist, Steven	ThP 537
Reddy, Moola	ThP 228	Ren, Da	WOA am 09:35	Rinke, Peter	MP 285
Reddy, P. Nagi	MP 105	Ren, Jianhua	WP 130	Rinner, Oliver	MOB pm 04:50
Reddy, Premkumar	ThP 177	Ren, JianHua	TP 140	Rinner, Oliver	MP 337
Reddy, Srinivasa	MP 268	Ren, Jianhua	WP 137	Rinner, Oliver	ThOA am 08:55
Reece, Jennifer	TP 070	Ren, Jianhua	MP 108	Rioux, Marie-Claire	MP 502
Reed, David	TP 539	Ren, Shubin	ThOB pm 04:10	Rist, Wolfgang	MP 464
Reed, Ralph	ThP 315	Ren, Yan	MP 565	Ritamo, Ilja	ThP 267
Rees, Bernard B.	WOE am 09:15	Renard, Bernhard Y.	WP 282	Ritamo, Ilja	ThP 257
Rees, Herb	ThP 124	Renard, Bernhard Y.	WP 264	Rittenbach, Kirsten	MP 513
Reeves, Erica	MP 542	Renfrow, Matthew B.	TP 401	Rivard, Rebecca S.	TP 367
Reeves, Erica	ThP 440	Renfrow, Matthew B.	TP 339	Rivera, Juan	ThP 435
Regnier, Fred E.	MP 299	Renfrow, Matthew B.	WP 479	Rivera-Tirado, Edgardo	MOG pm 04:50
Regnier, Fred E.	TP 570	Renfrow, Matthew B.	MP 491	Roach, John A.G.	ThP 346
Regnier, Fred E.	TP 171	Renfrow, Matthew B.	TP 357	Rob, Ewing	TP 305
Regnier, Fred E.	TP 214	Renfrow, Matthew B.	TP 389	Robbat, Albert	ThP 234
Regnier, Fred E.	MP 514	Renganathan, Kutralanathan	MP 521	Robbins, Matthew D.	MP 046
Regnie, Fred E.	ThP 380	Renkonen, Risto	ThP 257	Robbins, Richard	WP 140
Regula, Jörg Thomas	TP 377	Renkonen, Risto	ThP 267	Robbins, Ronny C.	ThP 129
Rehm, Jason E.	ThP 185	Renner, Julie	MP 353	Robert, Flavie	MP 584
Rehulka, Pavel	TP 079	Renner, Julie A.	MP 234	Roberts, Jane	ThP 259
Reid, Christopher	WP 296	Renner, Uwe	MP 324	Roberts, Ken P.	TP 554
Reid, Gavin	ThP 453	Renwick, Neil	MP 326	Roberts, Williams L.	WP 306
Reid, Gavin E.	TP 082	Resch, Martin	TP 131	Robertson, Lucinda J. G.	MP 427
Reid, Gavin E.	ThP 038	Resemann, Anja	TP 394	Robichaud, André	WP 397
Reid, Gavin E.	TP 076	Resing, Katheryn	ThP 410	Robila, Valentina	MP 340
Reid, Gavin E.	MOF pm 03:30	Reusbaet, Léon	MP 527	Robinette, David	TP 499
Reidegeld, Kai	TP 302	Reyes, Leticia	TP 448	Robinette, David	WP 554
Reihs, Karsten	WP 042	Reynes, Daniel	WP 026	Robins, Russell H.	TP 235
Reijmers, Theo	ThP 181	Reynolds, James C.	TP 138	Robinson, Carol V.	WP 158
Reilly, James P.	TP 193	Reyrat, Jean-Marc	WP 504	Robinson, Carol V.	WP 154
Reilly, James P.	ThP 264	Reyzer, Michelle L.	TOC pm 02:30	Robinson, Carol V.	WP 157
Reilly, James P.	TP 083	Reyzer, Michelle L.	WP 054	Robinson, Carol V.	ThOE am 09:55
Reilly, James P.	TP 317	Rezai, Taha	MP 231	Robinson, Carol V.	TP 325
Reilly, James P.	TP 415	Rezenom, Yohannes	MP 006	Robinson, Carol V.	WP 143
Reilly, James P.	TP 033	Rhodus, Nelson L.	ThOB am 08:35	Robinson, Dana E.	ThOF am 09:55
Reilly, James P.	WOE pm 04:10	Rhodus, Nelson L.	WOA pm 02:30	Robinson, Dana E.	MP 559
Reilly, James P.	WP 470	Riba, Isabel	TP 084	Robinson, Katherine A.	TP 396
Reilly, James P.	TP 075	Richard, John W.	ThP 191	Robinson, Matthew	TP 218
Reilly, James, P.	TP 544	Richard, Morrison	ThP 096	Robinson, Phillip J.	TP 409
Reilly, Peter T. A.	ThP 047	Richards, James C.	WP 291	Robinson, Sarah	WP 293
Reilly, Peter T. A.	WP 088	Richardson, Douglas D.	TOG pm 02:50	Robinson, Sarah	MP 513
Reily, Michael	MOD pm 03:30	Richardson, Jason L.	MP 131	Roboz, John	ThP 177
Reinert, Knut	ThP 207	Richardson, Susan	TP 095	Roboz, John	TP 413
Reinhold, Vernon	MP 211	Richer, Stéphanie	MP 287	Rochell, Nishi	TP 071
Reinhold, Vernon	WOB am 08:35	Richmond, Timothy A.	MP 366	Rockney, Bennett	TP 471
Reinhold, Vernon N.	TOE pm 03:50	Richoza-Payot, Janique	ThP 379	Rockwood, Alan L.	WOF pm 03:30
Reinhold, Vernon N.	MP 210	Richter, Florian	ThP 407	Rockwood, Alan L.	WP 306
Reinikainen, Arja	TP 461	Richter, Florian	MOB pm 04:30	Roddy, Thomas	ThP 218
Reisler, Emil	ThOE pm 02:30	Rick, David L.	ThOD am 09:35	Rode, Karsten	TP 131
Reisler, Emil	TP 347	Rick, King	WP 254	Rodgers, Mary T.	MP 116
Reith, Alastair	ThP 500	Ricksecker, Kim	WP 320	Rodgers, Mary T.	WOG am 09:35
Reitz, Richard E.	MP 358	Ricoul, Florence	ThP 184	Rodgers, Mary T.	MP 112
Reitz, Richard E.	WP 314	Ridder, Lars	WP 379	Rodgers, Mary T.	WP 124
Reiz, Bela	TP 510	Ridenour, Whitney B.	ThOE am 09:15	Rodgers, Ryan P.	MP 150
Rejtar, Tomas	ThP 510	Ridenour, Whitney B.	WP 053	Rodgers, Ryan P.	MP 149
Rekosh, David	WOA am 09:15	Ridge, Douglas	ThP 134	Rodgers, Ryan P.	MP 140
Relkin, Norman R.	TOA am 09:15	Ridgeway, Mark E.	TP 027	Rodgers, Ryan P.	MP 136
Remaut, Han	WP 151	Ridgeway, Mark E.	TP 028	Rodgers, Ryan P.	TOG am 08:15
Remes, Philip M.	MP 101	Rieger, Robert A.	MP 346	Rodgers, Ryan P.	MP 147
Remes, Philip M.	MP 098	Riggs, Arthur D.	ThP 519	Rodgers, Ryan P.	MP 135
Remmele, Jr, Richard L.	TP 408	Riley, Catherine	ThP 459	Rodrigues, João	WP 408
Rempel, Don L.	MP 064	Riley, Catherine P.	TP 323	Rodriguez, Jesse M.	ThP 248
Rempel, Don L.	TP 333	Riley, Rebeccah R.	TP 513	Rodríguez-Manzaneque, Juan Carlos	WP 543
Rempel, Don L.	MP 056	Rill, Randolph L.	MP 373	Roe, Chris	TOF pm 03:50
Rempel, Don L.	MP 479	Rimmer, Duncan A.	MP 343	Roe, Mikel R.	ThOE pm 04:10
Ren, Chen	TP 269	Rinaggio, Joseph	ThP 511	Roecklin, Dominique	TP 509

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space



INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Roehling, Ullrich	WP 023	Roumeliotis, Theodoros	TP 469	Russell, William K	TP 477
Roelens, Frederick	ThOD pm 02:30	Roumeliotis, Theodoros	WP 483	Russell, David	TP 052
Roesli, Christoph	MP 472	Rourick, Robyn	WP 342	Rustum, Abu	TP 264
Rogalski, Jason	WP 276	Rouse, Jason C.	MP 209	Rustvold, D. Leif	TP 271
Rogers, Alison	TP 399	Rouse, Jason C.	TP 430	Rustvold, Leif D.	MP 427
Rogers, Duane A.	WOG pm 02:50	Rousell, David	MP 040	Rusyn, Ivan	WP 373
Rogers, Elizabeth C.	ThP 169	Rousell, David J.	ThP 053	Rutschow, Heidi	TP 315
Rogers, Iain	ThP 089	Rout, Michael P.	MP 574	Rykunov, Dmitrij	TP 156
Rogers, Iain	MP 175	Rowland, Megan	WP 403	Ryoo, Sungwoo	MP 540
Rogers, Iain	MP 176	Rowland, Megan D.	MP 582	Ryu, W. K.	TP 113
Rogers, Iain	ThP 269	Rowland, Megan D.	MP 415	Ryzhov, Victor	WP 110
Rogoschewsky, Patrick	ThOC pm 03:10	Roy, Marcia	WP 475	Ryzhov, Victor	WP 125
Rohde, Candace	MP 240	Roy, Nicole C.	MP 504	Ryzhov, Victor	WP 146
Rohde, Candace	ThP 099	Royce, Steve	MP 326	Saad, Nabil	WP 365
Rohlf, Rebecca	WP 454	Ruan, Chunhai	WOG am 09:35	Saad, Nabil	MP 166
Röhrich, J.	MP 355	Ruan, Dongliang (Eric)	MP 459	Saad, Ola M.	MP 336
Rohrs, Henry W.	MP 341	Rubakhin, Stanislav	MP 362	Saad, Ola M.	TOA am 09:35
Rojkovicova, Tatiana	MP 283	Rubakhin, Stanislav S.	MP 361	Saarela, Ville	TOF pm 04:10
Rojsajjakul, Teerapat	ThP 533	Rubakhin, Stanislav S.	TP 290	Saarela, Ville	WP 205
Rolando, Christian	ThP 037	Ruben, Steve M.	MP 553	Saarela, Ville	TP 011
Rolando, Christian	MP 172	Ruben, Steven M.	TP 441	Saba, Alessandro	MP 214
Rolando, Christian	TOA pm 04:10	Rudd, Pauline M.	WOB am 09:55	Saba, Alessandro	MP 220
Rolando, Christian	MP 516	Rudella, Andrea	ThP 491	Saba, Julian	ThOF pm 04:10
Rolando, Christian	ThP 442	Rudewicz, Patrick	WP 327	Sabatine, Marc S.	WOD am 08:15
Rolando, Christian	TP 480	Rudewicz, Patrick	ThP 292	Saborido Basconcillo, Libia	MP 282
Rolando, Christian	TP 314	Rudlof, Ivo	TP 299	Sacks, Gavin J.	ThP 247
Rolando, Christian	ThP 535	Rudnick, Paul	ThOB pm 03:30	Sadagopan, Nalini	TOA am 08:55
Rolfsson, Ottar	MOE pm 04:30	Rudnick, Paul	TP 153	Sadagopan, Nalini	MP 277
Romanelli, Anghony J.	TP 233	Rudnick, Paul	TP 162	Sadasivannair, Sudaralal	TP 538
Romanelli, Anthony J.	WP 570	Rudofilove, Alex	WP 248	Sadler, Peter J.	WP 156
Romanova, Elena	TP 286	Rudofilove, Alex	WP 256	Sadygov, Rovshan	MP 184
Romanova, Elena V.	MP 372	Rudy, Jeffrey	ThP 301	Sadygov, Rovshan	MP 194
Romanovskis, Peteris	WP 251	Rudy, Jeffrey	ThP 190	Saenz-Vash, Veronica	TOB pm 03:10
Romanovsky, Ilyana	WP 507	Rudy, Jeffrey	WP 337	Saenz-Vash, Veronica	MP 522
Rome, Leonard H.	TP 332	Rudy, Jeffrey A.	WP 196	Saggese, Diana A.	ThP 382
Romer, Lewis	MP 540	Rudzinski, Walter E.	ThP 339	Saha, Jharna	WP 357
Romesser, Paul B.	WP 496	Ruff, Marc	ThOG am 09:55	Saikusa, Kazumi	WP 461
Romine, Margaret	MP 450	Ruhl, Isaiah D.	TOG am 09:15	Sainiemi, Lauri	TP 020
Ronn, Ola	WP 517	Ruiz-Palacios, Guillermo	WP 410	Saito, Kazunori	TP 009
Rood, Brian R.	MP 528	Rummel, Julia L.	WP 018	Sakabe, Kaoru	TP 282
Rosas, Ivan O.	WP 491	Running, William	WP 470	Sakamoto, Shigeru	MP 252
Roschitzki, Bernd	MP 337	Ruotolo, Brandon T.	WP 143	Sakamoto, Shigeru	ThP 357
Roscoe, Benjamin P.	MP 401	Ruotolo, Brandon T.	ThOE am 09:55	Sakon, J. J.	TP 346
Rose, Rebecca J.	WP 151	Ruotolo, Brandon T.	TP 325	Sakuma, Takeo	TP 092
Roseboom, Winfried	TP 353	Ruotti, Victor	MOA am 09:15	Sakuma, Takeo	WP 241
Rosenberry, Terrone	WP 251	Rus, J.	MP 021	Sakurai, Nozomu	WP 374
Rosenblatt, David	MP 518	Rus, Juan	WP 106	Salajegheh, Mohammad Kian	MP 538
Rosenfeld, Robert	TP 408	Rus, Juan	ThOF pm 03:50	Salazar, Alex	TP 219
Rosenquist, M.	TP 563	Rusconi, Luisa	ThP 432	Sale, Ken	TP 337
Ross, Andrew R.S.	WP 415	Ruse, Cristian	WP 261	Sale, Kenneth	WOC am 09:55
Ross, Andrew Rs	WP 339	Ruse, Cristian	TP 160	Saleena, Lilly M.	TP 344
Ross, Andrew RS	ThP 430	Ruse, Cristian I.	TP 496	Salentine, Christopher	MP 262
Ross, Ian	TP 493	Russell, Alison	TP 563	Salerno, Raffaele	WP 141
Ross, Philip	ThP 495	Russell, David H.	TP 045	Salerno, Raffaele	WP 564
Rossi, Richard	ThP 133	Russell, David H.	ThP 069	Salisbury, Malcolm	MP 144
Rossi Bernardi, Luigi	TP 134	Russell, David H.	WP 103	Sallans, Larry	WP 413
Rossi Bernardi, Luigi	MP 024	Russell, David H.	MOG am 10:15	Sallans, Larry	WP 452
Rossie, Sandra	WP 533	Russell, David H.	WP 050	Sallans, Larry	WP 438
Rossier, Jean	ThP 544	Russell, David H.	ThOF pm 03:10	Salomon, Robert G.	ThP 313
Rotello, Vincent M.	WP 508	Russell, David H.	TP 477	Salomon, Robert G.	MP 521
Roth, Frederick P.	WOD am 08:15	Russell, David H.	MP 095	Salt, David	TP 171
Roth, Jeri	TP 174	Russell, David H.	TP 056	Salvadori, Piero	MP 220
Roth, Jeri	TP 162	Russell, David H.	WP 107	Salvadori, Piero	MP 214
Roth, Jeri	ThOB pm 03:30	Russell, David H.	MP 367	Salvesen, Guy	ThP 536
Roth, John	MP 166	Russell, David H.	MP 503	Salzet, Michel	MOF am 10:35
Roth, Michael	WOA am 08:35	Russell, David H.	ThP 107	Salzet, Michel	TP 299
Roth, Udo	WP 042	Russell, Patrick T.	TP 137	Salzet, Michel	WP 066
Roth, Udo	ThP 434	Russell, Scott	ThP 147	Salzet, Michel	WP 059
Rothenberg, Mace L.	MP 314	Russell, William K.	MP 503	Samant, Rajeev S.	TP 375
Roulhac, Petra L.	WP 464	Russell, William K.	MP 367	Samatova, Nagiza	MP 431

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Samgina, Tatiana Yu.....	ThP 080	Sauter, Andrew D.....	ThP 029	Schiffmann, Raphael.....	MP 428
Sampath, Ranga.....	ThOB am 09:35	Sauter III, Andrew D.....	ThP 030	Schiller, Jürgen.....	WP 414
Sampson, Jason S.....	MP 020	Sauter, Jr, Andrew D.....	ThP 030	Schilling, Alexander.....	ThP 441
Sampson, Jason S.....	TP 373	Sauvageau, Guy.....	WP 538	Schilling, Alexander B.....	WP 556
Sams, Richard A.....	TP 137	Savage, PhD, Ronald.....	MP 266	Schilling, Birgit.....	MP 404
Samskog, Jenny.....	WP 546	Savariar, Elamprakash.....	TP 574	Schilling, Birgit.....	ThP 540
Samuel, Michael P.....	MP 533	Savic, Daniel.....	ThP 228	Schilling, Birgit.....	ThP 502
Samuels, Timothy.....	ThP 209	Savickas, Philip.....	WP 295	Schilling, Birgit.....	TP 513
Sanda, Miloslav.....	TP 541	Savina, Michael.....	WOG pm 03:10	Schilling, Gregory D.....	WOG pm 04:10
Šanda, Miloslav.....	ThP 319	Savitski, Mikail M.....	TP 307	Schimerlik, Michael.....	MP 481
Šanda, Miloslav.....	MP 148	Savitski, Mikhail.....	ThOB pm 03:50	Schimerlik, Michael I.....	ThP 223
Šanda, Miloslav.....	TP 139	Savitski, Mikhail.....	TOB am 08:15	Schin, MaryLee.....	WP 357
Sanders, Ian.....	WP 232	Savtchenko, Seguei.....	TP 019	Schindler, Patrick.....	ThP 084
Sanders, Mark.....	WP 301	Savtchenko, Serguei.....	MP 038	Schink, Amy.....	ThOB am 09:35
Sanders, Mark.....	MOD pm 04:10	Sawdey, Lee.....	MOD am 10:55	Schink, Amy S.....	WP 236
Sanders, Mark.....	WP 369	Sawyer, Michael.....	MP 151	Schirle, Markus.....	MP 437
Sanders, Nathaniel.....	WP 024	Sawyer, Michael B.....	TP 208	Schisler, Melissa R.....	MP 344
Sanders, Phillip.....	TP 182	Sayegh, Camil.....	WP 444	Schisler, Melissa R.....	ThP 009
Sandmeyer, Suzanne.....	ThP 263	Scalf, Mark.....	ThP 443	Schlaeger, Thorsten M.....	WP 531
Sangler, Sarah.....	MP 584	Scalf, Mark.....	MP 084	Schlapbach, Ralph.....	MP 387
Sanmun, Duanganee.....	WP 315	Scalf, Mark.....	TP 380	Schlatzer, Daniela.....	ThP 470
Sannes-Lowery, Kristin A.....	WP 236	Scanlan, Chris N.....	WOB am 09:55	Schlatzer, Daniela M.....	MP 506
Sano, Yoshihisa.....	TP 234	Scarff, Charlotte.....	MP 225	Schleuder, Detlev.....	TP 093
Sans, Maria Dolors.....	MP 543	Scarlett, Cameron O.....	TOA pm 02:30	Schlosser, Andreas.....	TP 516
Santacruz, Cristian.....	MP 086	Scarlett, Cameron O.....	TP 412	Schlothauer, Tilman.....	TP 377
Santamaria, Anna.....	ThOA am 09:55	Schaefer, Hartmut.....	MP 285	Schlund, Sebastian.....	MP 117
Santasia, Carmen T.....	ThP 208	Schaefer, Sabrina.....	MP 532	Schlüter, Hartmut.....	ThP 207
Santasia, Carmen T.....	ThP 199	Schaefer, William H.....	MP 298	Schmechel, Detlef.....	MP 323
Santhanam, Lakshmi.....	MP 540	Schaefer, William H.....	MP 511	Schmelzer, Christian E. H.....	MP 376
Santi, Rita-Maria.....	ThP 456	Schaeffer, Christine.....	TP 509	Schmidt, Joshua.....	TP 454
Santos, Ilyn L.....	ThP 523	Schaeffer, Christine.....	TP 494	Schmidt, Alexander.....	MOB pm 04:50
Santos, Ilyn L.....	MP 519	Schaeffer, Christine.....	WP 504	Schmidt, Alexander.....	WOD pm 03:30
Sardiu, Mihaela.....	TP 303	Schaeffer, Christine.....	MP 584	Schmidt, Alexander.....	WP 493
Sardiu, Mihaela E.....	ThP 268	Schaeffer, Daniel A.....	ThP 252	Schmidt, Hartwig.....	TP 270
Sarkar, Dibyendu.....	ThP 135	Schafer, Dorothy A.....	TP 360	Schmidt, Joshua.....	TOE am 09:35
Sarkar, Fazlul H.....	ThP 294	Schäfer, Mathias.....	MP 117	Schmidt, Joshua J.....	TP 294
Sarkar, Wael.....	ThP 294	Schäfer, Mathias.....	MP 111	Schmidt, Karsten.....	WP 478
Sarracino, David.....	MP 538	Schafman-Janowiak, Bonnie.....	WP 118	Schmidt, Michael W.....	TOA pm 03:50
Sarrion, Nieves.....	ThP 113	Schaller, Kastli.....	TP 539	Schmitter, Jean-Marie.....	WP 431
Sarrion, Mrs. Nieves.....	WP 255	Schänzer, Wilhelm.....	WP 316	Schmitt-Ulms, Gerold.....	TP 463
Sarrut, Nicolas.....	ThP 184	Schatz, Courtney.....	MP 553	Schmitz, Oliver J.....	TOF am 09:55
Sasagawa, Tatsuru.....	MP 177	Schaub, Nicholas P.....	MOF am 10:15	Schmitz, Oliver J.....	MP 032
Sasaki, Atsuo.....	TP 310	Schaub, Tanner M.....	ThP 091	Schmitz, Oliver J.....	ThP 008
Sasaki, Kazumi.....	TP 543	Schaub, Tanner M.....	MP 063	Schmoyer, Denise D.....	WP 428
Sasaki, Tania.....	ThP 197	Scheel, Richard H.....	MP 097	Schmuck, Carsten.....	MP 117
Sasaki, Tania A.....	TP 225	Scheffer, Beatrix.....	ThP 487	Schnaper, Lauren.....	WP 303
Sasaki, Tania A.....	ThP 362	Scheibe, Burghardt.....	TP 490	Schneede, Jorn.....	MP 312
Sasaki, Tania A.....	MP 349	Scheible, Holger.....	WP 390	Schneider, Andrea.....	WOB am 09:15
Sasinowska, Heather.....	TP 168	Scheidenberger, Christoph.....	TOF am 08:55	Schneider, Birgit.....	WP 352
Sasinowski, M.....	MP 183	Schelle, Michael W.....	MOC am 10:35	Schneider, Bradley.....	WP 354
Sasinowski, Maciek.....	WP 268	Schellentraeger, Marc.....	TOF am 09:55	Schneider, Bradley B.....	TP 017
Sasinowski, Maciek.....	TP 168	Schenauer, Matthew.....	TOD am 08:35	Schneider, Bradley B.....	ThP 012
Sasinowski, Maciek.....	WP 259	Schenauer, Matthew.....	WOC am 08:35	Schneider, Bradley B.....	WP 015
Satake, Hiroyuki.....	WP 086	Schenauer, Matthew R.....	ThP 277	Schneider, Bradley B.....	ThP 074
Satake, Hiroyuki.....	TP 277	Schenone, Monica.....	TOA am 09:55	Schneider, David.....	WP 519
Satake, Hiroyuki.....	TP 023	Schepmoes, Athena A.....	TP 518	Schneidewinnd, Bjoern.....	TP 555
Sato, Akihiro.....	MP 121	Scherber, Robyn.....	WP 492	Schnier, Paul.....	TP 051
Sato, Hiroaki.....	WP 424	Scherl, Alex.....	MOB pm 04:10	Schnitzer, Jan E.....	ThP 496
Sato, Hiroaki.....	WP 027	Scherl, Alexander.....	WOD pm 04:10	Schnitzer, Jan E.....	MP 470
Sato, Hiroaki.....	TP 117	Scherl, Alexander.....	ThOF am 09:15	Schnölzer, Martina.....	TOB pm 03:50
Sato, Izuru.....	WP 032	Schey, Kevin L.....	TP 292	Schoder, Bob K.....	TP 037
Sato, Masahiko.....	TP 548	Schey, Kevin L.....	TP 448	Schoeler, Hans.....	WP 474
Sato, Masahiko.....	TOA am 08:15	Schiavo, Susan.....	TP 222	Schoener, Dale.....	WP 307
Sato, Shinji.....	ThP 261	Schieffer, Gregg.....	WP 097	Schoenherr, Regine.....	WP 552
Sato, Takafumi.....	WP 039	Schieffer, Gregg M.....	WP 366	Schoeniger, Joseph.....	WOC am 09:55
Sato, Takafumi.....	MP 077	Schieffer, Gregg M.....	ThP 046	Schoeniger, Joseph S.....	WP 150
Sato, Toshitaka.....	MP 429	Schieltz, David M.....	MOA am 10:15	Schöler, Heinz F.....	ThP 366
Sato, Toshitaka.....	TP 581	Schierbeek, Henk.....	MP 157	Scholl, Peter F.....	TOA am 08:35
Sato, Takaya.....	MP 077	Schiewek, Ralf.....	MP 032	Scholz, Birger.....	TP 473
Satoh, Takaya.....	WP 039	Schiewek, Ralf.....	TOF am 09:55	Schoofs, Liliane.....	MP 362

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Schrader, Wolfgang	TOG am 08:35	Scullion, Paul	TP 228	Seyfried, Thomas	MP 211
Schrader, Wolfgang	MP 146	Seal, Jennifer R.	MP 512	Seymour, Colin B.	ThP 525
Schrader, Wolfgang	ThP 244	Sebastian, V. S.	MP 105	Seymour, Jennifer L.	WOB pm 03:50
Schreiber, Andre	TP 092	Secrist, Rebecca R.	MP 350	Seymour, Sean	ThP 272
Schreiber, Andre	ThP 375	Seebacher, Jan	MP 337	Seymour, Sean L.	ThP 252
Schreiber, André	MP 226	Seebacher, Jan	MOB pm 04:50	Sha, Wei	MP 295
Schreiber, Stuart L.	TOA am 09:55	Seeber, Stefan	TP 377	Shabahang, Mohsen	ThP 455
Schriemer, David	TP 331	Seeley, Erin H.	TP 453	Shabanowitz, Jeffrey	MP 340
Schriemer, David C.	MP 492	Seeley, Erin H.	WP 056	Shabanowitz, Jeffrey	WOA am 09:15
Schubert, Michael	MOF pm 03:50	Seemann, Kerstin	TP 394	Shabanowitz, Jeffrey	MP 458
Schubert, Peter	MOB pm 03:30	Seested Johansen, Torben	TP 421	Shabanowitz, Jeffrey	ThP 406
Schuerenberg, Martin	WP 052	Segu, Zaneer, M.	ThP 033	Shabanowitz, Jeffrey	TP 360
Schuerenberg, Martin	WP 065	Segura-Carretero, Antonio	ThP 122	Shabb, John	ThP 410
Schug, Kevin	MP 413	Segura-Carretero, Antonio	ThP 349	Shackman, Holly	ThP 013
Schug, Kevin A.	WP 136	Sei, Yoshihisa	TP 009	Shadrach, Karen	MP 530
Schug, Kevin A.	WP 406	Seibert, Marvin M.	ThOE am 09:35	Shadrach, Karen	MP 531
Schug, Kevin A.	MP 380	Seidel, Christopher	TP 303	Shafer, Wilson D.	ThP 118
Schulman, Howard	WP 549	Seidler, Daniela G.	WOB am 09:15	Shaffer, Scott	MOB pm 04:10
Schulte, Christopher F.	WP 363	Seiler, Anja	ThP 468	Shaffer, Scott	WP 416
Schultz, Albert	MP 088	Seipert, Richard	TP 383	Shaffer, Scott A.	WOD pm 04:10
Schultz, Gary	TP 232	Seipert, Richard R.	WOE pm 02:50	Shaffer, Scott A.	ThOF am 09:15
Schultz, Gary A.	WOE am 09:35	Seipert, Richard R.	MP 203	Shah, Bhavana	TP 416
Schultz, Gary A.	WP 506	Seipert, Richard R.	ThP 281	Shah, M.	TP 563
Schultz, Gary A.	TP 430	Seitz, Wolfram	TP 093	Shah, Manesh	TP 531
Schultz, J. Albert	WP 099	Sekiguchi, Yoko	ThP 357	Shah, Manesh	TP 529
Schultz, J. Albert	TP 054	Sekimoto, Kanako	WP 122	Shah, Manesh	MP 431
Schultz, J. Albert	MOF am 09:55	Sekiya, Sadanori	MP 099	Shah, Manesh B.	WP 425
Schultz, Melissa M.	ThOG am 08:55	Sekiya, Sadanori	WP 087	Shah, Manesh B.	WP 428
Schultz, Peter G.	TP 410	Sekiya, Sadanori	TP 201	Shah, Punit	WP 258
Schulz, Wolfgang	TP 093	Selbach, Matthias	WP 535	Shaham, Oded	WOD am 08:15
Schulz-Trieglaff, Ole	ThP 207	Seldin, David C.	TP 407	Shakleya, Daa M.	WP 230
Schumacher, Lisa G.	WP 244	Seldin, David C.	ThP 271	Shaler, Thomas	ThP 376
Schürenberg, Martin	WP 414	Selley, Julian	TP 159	Shaler, Thomas	MP 125
Schürenberg, Martin	WP 076	Semba, Richard	MP 409	Shaler, Thomas A.	WP 549
Schutkowski, Mike	MP 339	Semmes, John	TP 168	Shaler, Thomas A.	TP 486
Schutz, Frederic	ThP 512	Semmes, O. J.	MP 183	Shan, Lian	MP 221
Schwacke, John	TP 448	Semmes, O. John	MOF am 10:15	Shan, Lian	WP 313
Schwartz, Jae	ThP 416	Semmes, O. John	WP 259	Shanbhag, Sudepta	ThP 157
Schwartz, Jae C.	MOF pm 04:50	Semmes, O. John	WP 268	Shanbhag, Sue	ThP 159
Schwartz, Sarah A.	WP 485	Semmes, O. John	MP 586	Shanmugam, Narkunaraaja	ThP 519
Schwarz, Emanuel	MP 532	Semmes, O. John	ThP 437	Shariatgorji, Mohammadreza	WP 512
Schwarz, Emanuel	MP 289	Semnani, Roshanak T.	TP 533	Sharma, Neil	ThP 530
Schwegler, E. Ellen	MP 586	Sen, Ashis K.	TP 012	Sharma, Neil	MP 503
Schweiger, Brunhilde	MP 326	Sen, Shalmali	MP 496	Sharma, Rakesh	TP 291
Schweiger-Hufnagel, Ulrike	WP 514	Senko, Michael W.	ThP 163	Sharma, Sandeep	MP 237
Schweitzer, Mary H.	MP 179	Senko, Michael W.	MP 063	Sharma, Seema	WP 456
Schwinn, Debra	WP 554	Sens, Donald A.	TP 575	Sharma, Shamik	TP 527
Schwudke, Dominik	TP 179	Sens, Mary Ann	TP 575	Sharma, Vagisha	TP 169
Scicchitano, Marshall	ThP 470	Seo, David	WP 554	Sharp, Joshua S.	TP 336
Scigelova, Michaela	MP 128	Seo, Jong BOK	MP 581	Sharp, Julia L.	WP 428
Scigelova, Michaela	ThP 089	Seo, Jungju	WP 177	Shashilov, Viktor A.	WP 458
Scigelova, Michaela	MP 176	Sepulveda, Maria	WP 207	Shastri, Naina	ThP 532
Scigelova, Michaela	TP 143	Serb, Alina	WOB am 09:15	Shaw, Bryan F.	WP 463
Scollon, Edward J.	ThP 128	Séror, Simone	TOC pm 03:30	Shaw, Walter A.	ThP 320
Scotchie, Jessica	TP 553	Serrano, Jose	MP 233	Shchepinov, Mikhail S.	WP 061
Scott, C. Ronald	WP 310	Sessler, Richard	MP 500	Sheehan, Edward	MP 042
Scott, Daniel J.	TP 569	Sethuraman, Mahadevan	TP 406	Sheehan, Edward W.	TP 014
Scott, Daniel J.	MP 587	Seto, Carmai	TOD pm 03:30	Sheehan, Edward W.	MOE am 10:35
Scott, Garry	ThP 051	Setou, Mitsutoshi	ThP 093	Sheehan, John K.	ThP 538
Scott, Gary K.	MP 404	Setou, Mitsutoshi	ThP 106	Shefcheck, Kevin	TP 568
Scott, George	TP 227	Setou, Mitsutoshi	WP 068	Shefcheck, Kevin	TP 578
Scott, George	ThP 214	Setou, Mitsutoshi	ThP 092	Shefcheck, Kevin J.	TP 361
Scott, George	TP 224	Settineri, Tina	ThP 074	Sheffield, Jeanne	TP 367
Scott, Mike	MP 555	Settlage, Robert E.	ThP 083	Shehab, Majida Abu	MP 432
Scrivens, James H.	TP 057	Settlage, Robert E.	WP 548	Sheldon, Adrian	MP 254
Scrivens, James H.	TOD am 08:15	Seuma, Jaume	ThP 098	Sheldon, Edward M.	TP 266
Scrivens, James H.	MP 225	Severin, Paul	ThP 243	Sheldon, Michelle	TP 232
Scrivens, James H.	ThP 411	Sevinsky, Joel R.	WP 522	Sheldon, Michelle	ThP 372
Scrivens, James H.	MP 005	Sevinsky, Joel R.	WP 403	Shen, Fang	ThP 436
Scrivens, James H.	ThP 251	Sevugarajan, S.	TP 043	Shen, Rong-Fong	ThP 253

Program Code: M, T, W, Th = Day    O = Oral    A, B, C, D, E, F, G = Session    am = Morning, pm = Afternoon    Time  
M, T, W, Th = Day    P = Poster    Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Shen, Rong-Fong	TP 525	Shimma, Shuichi	WP 068	Siepen, Jennifer	TP 159
Shen, Rong-Fong	TP 151	Shimma, Shuichi	ThP 092	Siepen, Jennifer	MOA am 10:55
Shen, Shida	WP 402	Shimma, Shuichi	ThP 093	Siepen, Jennifer A	MP 196
Shen, Zhouxin	WP 283	Shin, Yong-Seung	WP 007	Sikanen, Tiina	TP 020
Shen, Chia-ru	TP 550	Shin, Yong-Seung	WP 022	Sikanen, Tiina M.	WP 203
Sheng, Quanhu	WP 270	Shinkyo, Raku	TP 234	Sikora, Sergey	MP 585
Sheng, Quanhu	TP 155	Shinoda, Kosaku	ThP 431	Sillero, Juan Antonio	ThOF pm 03:50
Sheng, Quanhu	TP 203	Shinoda, Yoko	WP 419	Silva, A T Manohari	MP 486
Sheng, Quanhu	ThP 403	Shinoyama, Masaki	ThP 006	Silva, Jeffery C.	TP 475
Shenk, Thomas	MP 281	Shiokawa, Yoshiro	WP 213	Silva, Jeffery C.	WP 437
Shenk, Thomas	MP 574	Shiono, Kei	WP 126	Silva, Jeffery C.	WP 430
Shepherd, Andrew	MP 144	Shioyama, Shohei	WP 347	Silva, Jeffery C.	WP 277
Sheppard, Don	MP 239	Shioyama, Shohei	ThP 165	Silva, Jeffery C.	TP 571
Shepson, Paul	TP 111	Shipkova, Petia	WP 369	Silva, Jeffery C.	WP 275
Shepson, Paul B	ThP 056	Shipkova, Petia	MOD pm 04:10	Silva, Leslie	MP 492
Sherley, James	MP 360	Shipkova, Petia	WP 301	Silvestri, Catherine J.	MOE am 10:55
Sherley, James L.	TP 571	Shirasaki, Dyna I.	ThP 529	Sim, Robert B.	WOB am 09:55
Sherman, Jamie	MP 405	Shockcor, John	WOB pm 03:30	Simell, Olli	TP 461
Sherman, Michael	ThP 526	Shockcor, John	WOD am 09:35	Simeon, Fabrice G.	WP 389
Sherman, N. E.	TP 359	Shockcor, John	TP 349	Simeone, Diane M.	MP 201
Sherrod, Stacy D.	ThP 107	Shoemaker, Charles B.	TP 501	Simeone, Diane M.	WOA pm 02:50
Sherwood, Robert	WP 519	Shoemaker, Glen K.	ThOC am 09:55	Simmons, Douglas	WOF pm 02:50
Shetty, H. Umeha	WP 389	Shollenberger, Daniel	ThP 199	Simmons, Douglas	ThP 224
Shetty, Vivekananda	MP 200	Shollenberger, Daniel	ThP 208	Simmons, Douglas A.	WP 161
Shetty, Vivekananda	ThP 524	Shomo, II, Ronald E.	ThP 245	Simon, Eric	ThP 438
Sheu, Leslie	MP 331	Shomo, II, Ronald E.	ThP 142	Simon, Eric S.	MP 426
Shevchenko, Andrej	TP 179	Shonsey, Erin M	TP 339	Simon, John D.	MOC am 09:15
Shevchenko, Andrej	WP 186	Shook, Christine	WOC pm 03:50	Simon, Roger P.	MOA pm 04:50
Shevchenko, Valeriy E.	TP 485	Shore, Sabrina	MP 470	Simonian, Michael H.	TP 582
Shevde, Lalita A.	TP 375	Shore, Sabrina	ThP 496	Simonsick, Jr., William J.	TP 107
Shi, Chaomei	TP 406	Shores, Kevin	MP 588	Simonson, Anne	ThP 496
Shi, Feng	TP 215	Short, Luke C.	ThP 024	Simpson, Deborah M.	WP 505
Shi, Fong-Ku	ThP 507	Short, R. Timothy	TP 038	Sims, Benjamin	WP 146
Shi, Gongyi	ThP 396	Short, R.T.	WOF am 09:55	Sims, Kacee H.	MOC am 09:35
Shi, Haihong	MP 256	Shortreed, Michael R.	MOD pm 04:50	Sims, Paul	WP 473
Shi, Jianxia	ThP 194	Shortreed, Michael S	ThP 323	Sinai, Anthony P	ThP 542
Shi, Liang	MOB pm 05:10	Shou, Wilson Z.	TP 230	Sindelka, Radek	TP 541
Shi, Lirong	MP 295	Shoukas, Artin A	MP 540	Sindona, Giovanni	WP 564
Shi, Xiangguo	MP 478	Shrestha, Bindesh	MOF am 10:55	Sindona, Giovanni	WP 141
Shi, Xiangguo	WP 145	Shrestha, Bindesh	TP 255	Singelton, Scott	ThOC pm 04:10
Shi, Xiangguo	TP 333	Shroff, Rohit	ThP 043	Singer, Steven	TP 398
Shi, Xiaofeng	WP 298	Shu, Pang	TP 110	Singh, Amandeep	MP 173
Shi, Xu	TOB pm 03:10	Shui, Wenqing	TP 306	Singh, Pragma	MOB pm 04:10
Shi, Xu	WOD am 08:15	Shui, Wenqing	MP 320	Singh, Rahul	TP 362
Shi, Yang	MP 548	Shui, Wenqing	MP 331	Singh, Ravinder J.	MP 213
Shi, Yu	ThP 478	Shukla, Ashok K.	ThP 539	Sinha, Anupama	WP 496
Shi, Yu	MP 399	Shukla, Ashok K.	MP 438	Sinha, Sandipan	ThP 388
Shibata, Daisuke	WP 374	Shukla, Mukta	ThP 539	Sinhapura-Dewage, Manoj Chinthaka	MP 116
Shibutani, Shinya	MP 346	Shulaev, Vladimir	MP 295	Sinhapura-Dewage, Manoj Chinthaka	WP 124
Shichang, Miao	TP 253	Shuman, Joel	MP 295	Sinner, Frank M.	WP 195
Shida, Yasuo	ThP 006	Shvartsburg, Alexandre A.	TP 338	Sinner, Frank M.	MP 228
Shiea, Jentaie	TP 013	Shyong, Bao-jen	TP 267	Siow, Jia Eng	ThP 185
Shiea, Jentaie	ThP 028	Shyong, Bao-jen	TP 053	Sistare, Frank D.	MP 511
Shiea, Jentaie	TP 008	Sibum, Martin	MP 348	Sisto, Micheal C.	ThP 015
Shiea, Jentaie	ThP 014	Sibum, Martin	WP 249	Sisu, Eugen	ThP 276
Shiea, Jentaie	WP 079	Sibum, Martin	ThP 206	Sisu, Eugen	WOB am 09:15
Shiea, Jentaie	TP 018	Sicinski, Peter	WP 528	Sisu, Ioana	ThP 276
Shiea, Jentaie	TP 010	Sickmann, Albert	MP 471	Sitek, Barbara	WP 555
Shiea, Jentaie	TP 005	Sickmann, Albert	ThP 521	Sitnikov, Dmitri	MP 406
Shieh, Chia-Hui	WP 529	Sickmann, Albert	TP 382	Sitruk-Ware, Regine	MP 265
Shieh, Jean	WP 054	Siddiqui, Nadeem	TP 328	Siu, Andy C. K.	TP 086
Shieh, Yi-Fan	WP 332	Siddiqui, Nadeem	ThP 480	Siu, K. W. Michael	MP 400
Shih, Liang-Yu	TP 408	Siddiqui, Nadeem	TP 547	Siu, K. W. Michael	WOG am 08:15
Shiki, Shigetomo	MP 089	Sides, C. R.	TP 346	Siu, K.W. Michael	WOA pm 03:10
Shilov, Ignat V.	ThP 252	Siebert, Hans-Christian	MP 330	Siu, K.W. Michael	TP 086
Shimakoshi, Hisashi	TP 009	Siedler, Frank	ThP 487	Siuzdak, Gary	MOD pm 05:10
Shimelis, Olga	ThP 199	Siegel, Marshall M.	ThP 423	Siuzdak, Gary	WP 434
Shimelis, Olga	ThP 208	Siegel, Paul D.	MP 323	Siuzdak, Gary	WP 423
Shimizu, Naoto	WP 399	Siegel, Paul D.	WP 433	Siuzdak, Gary	TP 176
Shimizu, Takao	TP 183	Siegfried, Jill M.	WP 491	Sjoelund, Virginia	MP 498

Program Code: M, T, W, Th = Day O = Oral A, B, C, D, E, F, G = Session am = Morning, pm = Afternoon Time  
M, T, W, Th = Day P = Poster Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Skaltsounis, Alexios-Leandros	TP 469	Smith, Richard D.	ThOF pm 02:30	Soo, Evelyn C.	ThP 327
Skarping, Gunnar	MP 159	Smith, Richard D.	TP 534	Soparawalla, Santosh	WP 012
Skinner, Martha	ThP 271	Smith, Richard D.	MOE am 09:55	Soparawalla, Santosh	WP 013
Skinner, Martha	TP 407	Smith, Richard D.	ThOE pm 03:30	Soper, Steven A.	WP 541
Skinner, Martha	MP 475	Smith, Richard D.	TP 055	Sorci-Thomas, Mary G.	MP 533
Skinner, Tom	WP 473	Smith, Richard D.	WP 360	Sorensen, Christina M.	WP 360
Skipp, Paul J.	TP 569	Smith, Richard D.	WP 280	Sosero, Ciro	WP 092
Skipp, Paul J.	MP 587	Smith, Richard D.	TP 281	Souda, Puneet	WOD pm 03:10
Sköld, Karl	MP 370	Smith, Richard D.	WP 510	Souda, Puneet	ThP 460
Sköld, Karl	MP 371	Smith, Richard D.	WP 533	Souda, Puneet	WOA am 08:55
Sköld, Karl	TP 473	Smith, Richard W.	ThP 525	Soudakov, Mikhail	WP 089
Skoumal, Reka	WP 017	Smith, Scott A.	TP 030	Soufi, Boumediene	TP 522
Slade, Peter G.	MP 505	Smith, Scott A.	TP 040	Southern, Edwin M.	WP 061
Slade, Susan E.	TOD am 08:15	Smith, Steven G.	ThP 231	Southern, Mark R.	ThOA pm 03:30
Slade, Susan E.	ThP 411	Smith, Suncerae	WP 447	Southern, Mark R.	WOC pm 02:30
Slade, Susan E.	ThP 251	Smith, Suncerae I.	WP 440	Southern, Mark R.	TP 329
Slaton, Joel W.	TP 554	Smith, Suncerae J.	WP 449	Southern, Mark R.	WP 262
Sleat, David E.	MOA pm 04:30	Smith, Theresa J.	TOG pm 03:50	Sovocool, G. Wayne	WP 009
Sledge, George	WP 303	Smith, W. Brit	MP 230	Sowa, Gaby	ThP 408
Sleighter, Rachel	ThP 131	Smithgall, Thomas E.	TP 334	Sowell, John D.	ThP 291
Sleighter, Rachel L.	TOG am 09:15	Smithgall, Thomas E.	MP 489	Sowell, Renā A.	TP 434
Sleighter, Rachel L.	WOG pm 03:30	Smithgall, Thomas E.	MP 494	Sowell, Sarah M.	TP 529
Sleno, Lekha	MOD am 09:55	Smithgall, Thomas E.	TOD am 08:55	Soyk, Matthew	WP 097
Sleno, Lekha	ThOD am 08:35	Smyth, Shirley Anne	ThP 130	Soyk, Matthew W.	ThP 046
Sleno, Lekha	MP 154	Sneekes, Evert-Jan	TP 512	Spahr, Chris	WP 484
Sleno, Lekha	WOB pm 04:10	Snel, Marten	ThP 070	Sparbier, Katrin	ThP 396
Slingsby, Rosanne	TP 136	Snel, Marten	WP 069	Sparbier, Katrin	TP 394
Sliva, Dan	WP 404	Sniatynski, Matthew J.	WP 276	Sparbier, Katrin	TP 446
Slotta, Douglas J.	ThP 520	Sniegoski, Lorna T.	MP 229	Spark, Holland B.V.	ThP 030
Slotta, Douglas J.	TP 157	Snovida, Sergei I.	TP 209	Sparkman, David	Special Poster
Small, Jeff M.	TP 092	Snow, Timothy A.	ThP 103	Sparkman, O. DAVID	MOC pm 04:50
Smallwood, Heather S.	ThOE pm 03:30	Snowden-Rawley, Eryn K.	WP 569	Sparkman, O. David	MP 007
Smallwood, Maggie	WP 405	Sobal, Grazyna	ThP 312	Sparkman, O. David	TP 140
Smart, Eric	MOG am 10:55	Sobek, Jens	MP 294	Sparkman, O. David	MP 108
Smejkal, Gary	WP 507	Šobotník, Jan	MP 148	Speers, Anna E.	ThP 445
Smit, August B.	ThP 515	Sobott, Frank	TOD am 09:55	Speicher, David W.	WP 547
Smith, April L.	WP 570	Soderblom, Erik J.	TP 341	Speir, J. Paul	TOA pm 02:30
Smith, Charles V.	ThOD am 09:55	Sofianos, Zacharias D.	MP 421	Spellman, Daniel S.	ThP 524
Smith, Colin	TP 176	Soglia, John	TP 229	Spellman, Daniel S.	MP 569
Smith, Darrin	ThP 118	Soini, Helena A.	MP 309	Spencer, Cheryl	ThP 296
Smith, Derek	ThP 513	Solak, Nilufer	MP 278	Sperline, Roger P.	WOG pm 04:10
Smith, Derek	WP 072	Solano, Maria I.	MP 198	Sperry, Justin	TP 333
Smith, Derek	ThP 503	Solano, Maria I.	MOA am 10:15	Spicer, Vic	TOE am 08:55
Smith, Donald F.	MP 135	Solaro, R. John	ThP 403	Spicer, Vic	ThP 121
Smith, Eric D.	ThP 175	Solazzo, Caroline	TP 480	Spicer, Vic	MP 026
Smith, Geoffrey B.	ThP 270	Solomon, Bruce	ThP 099	Spicer, Victor	WP 518
Smith, Harold T.	MP 218	Soma, Lawrence	WP 337	Spijker, Sabine	ThP 515
Smith, Joanna	ThP 189	Soma, Lawrence	MP 258	Spink, David C.	ThP 125
Smith, Joanna	ThP 210	Soma, Lawrence	WP 245	Spithill, Terry	MP 502
Smith, Joanna	ThP 201	Soma, Lawrence R.	WP 196	Spithill, Terry	TP 452
Smith, Jonell	WP 035	Somji, Seema	TP 575	Spithill, Terry	TP 444
Smith, Julia	ThP 492	Somogyi, Arpad	TP 110	Spitznagel, Thomas	WP 170
Smith, Layton H.	ThOA pm 03:30	Somogyi, Arpad	WOE pm 03:10	Spotheim-Maurizot, Melanie	TP 400
Smith, Leonard A.	TOG pm 03:50	Sonesson, Anders	MP 416	Spraggins, Jeffrey	ThP 134
Smith, Lloyd	ThP 443	Song, An	MP 336	Sprake, Ed	TP 228
Smith, Lloyd M.	ThP 323	Song, Fenhong	TP 361	Sprake, Edward	MP 264
Smith, Lloyd M.	MP 084	Song, Fenhong	TP 568	Spratt, Karen	WP 552
Smith, Lloyd M.	MP 461	Song, Fenhong	TP 578	Spraul, Manfred	TP 180
Smith, Lloyd M.	MOD pm 04:50	Song, Haowei	MOC am 09:55	Spraul, Manfred	MP 285
Smith, Lloyd M.	ThP 025	Song, Jong Hee	WP 183	Springer, Andreas	MP 111
Smith, Lloyd M.	TP 380	Song, Kenneth	TP 458	Springer, Joe E.	TP 445
Smith, Lori L.	ThP 118	Song, Ligu	ThP 005	springfield, angela	WP 238
Smith, Martin P.	ThP 211	Song, Linan	TP 471	Springston, Jason	WOF am 08:35
Smith, Philip C.	WP 550	Song, Qi	MP 249	Springston, Jason	TP 026
Smith, Philip C.	TP 236	Song, Qingyu	TP 030	Sprung, Robert	MP 391
Smith, Richard	MP 450	Song, Qingyu	ThP 148	Sprung, Jr., Robert W.	MP 462
Smith, Richard	WP 082	Song, Yishu	WP 016	Squicciarini, Michael P.	MP 135
Smith, Richard	WOF pm 04:10	Song, Young K.	TP 300	Squier, Thomas C.	ThOE pm 03:30
Smith, Richard D.	TP 338	Sonoda, Leilani	WP 251	Srikanth, R.	MP 482
Smith, Richard D.	TP 518	Sonzogni, William	WP 033	Srinivas, R.	MP 105

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Srinivasan, Mohan	ThP 391	Stepan, Radim	ThP 235	Stuart, Sarah	TP 491
Srivastava, Om P.	MP 460	Stephan, Christian	ThP 273	Stubiger, Gerald	ThP 312
Stace, Anthony J.	WOG am 08:35	Stephan, Christian	TP 302	Studley, Andrew	MP 034
Stacey, Catherine	MP 306	Stephan, Christian	TP 468	Stühler, Kai	WP 555
Stacey, Catherine	WP 051	Stephanopoulos, Gregory	WP 437	Stulik, Jiri	TP 372
Stacey, Catherine	MP 019	Stephenson Jr., James L.	WP 403	Stumpo, Kate	WP 050
Stachura, Sylwia	WP 242	Stephenson, Jr., James L.	MP 582	Stupak, Jacek	WP 296
Stacpoole, Peter W.	MP 302	Stephenson, Jr., James L.	TOB am 09:15	Sturek, Michael	MP 509
Stafford, George	MP 049	Stephenson, Jr., James L.	WP 522	Sturre, Marcel J.G.	TP 302
Stafford Noble, William	WP 269	Stephenson, Jr., James L.	MP 415	Sturrock, Shane	ThP 265
Stagliano, Michael C.	TP 220	Stern, Debbie	MP 165	Su, An-Kai	ThP 042
Stahl, Bernd	WP 294	Stet, Femke	MP 224	Su, An-kai	TP 507
Stahl-Zeng, Jianru	WP 294	Stets, James R.	WP 049	Su, Dian	ThP 325
Stahl-Zeng, Jianru	ThP 515	Stevens, Jan F.	ThOE pm 03:50	Su, Qiaogong	WP 133
Stahl-Zeng, Jianru	ThP 518	Stevens, Jan F.	ThP 315	Su, Qiaogong	WP 138
Stahl-Zeng, Jianru	ThP 392	Stevens, Michael	WP 231	Su, Xiaodan	MOB am 09:55
Standing, Kenneth	ThP 121	Stevens, Stanley M.	MP 457	Su, Yali	MP 269
Standing, Kenneth G.	MP 026	STEWART, BRIAN	WP 214	Su, Yali	ThOC pm 03:30
Standing, Kenneth G.	TOE am 08:55	Stewart, Colin	MP 466	Su, Yang	TP 177
Stanelle, Rayman	ThP 158	Stewart, Nicolas A.	ThP 466	Su, Yang	TOE am 09:15
Stanford, Lateefah A.	MP 147	Stewart, Nicolas A.	TP 481	Su, Yang	TP 154
Stanley, Bruce	ThP 120	Stewart, Ron	MOA am 09:15	Subel, Bethany	ThP 334
Stanley, Scott D.	TP 141	Stine, Daniel	MP 247	Suckau, Detlef	WP 414
Stanley, Shawn	TP 132	Stinnett, Monica W.	WP 479	Suckau, Detlef	TP 449
Stano, Michal	WOG am 08:55	Stochaj, Wayne	ThP 423	Suckau, Detlev	TP 394
Stapels, Martha D.	MOA pm 04:50	Stockel, Jana	TP 534	Suckau, Detlev	WP 543
Staples, Gregory O.	ThP 283	Stockham, Rex	WP 231	Suckau, Detlev	TP 318
Starkey, Jason A.	MP 283	Stockley, Peter G.	MOE pm 04:30	Suckau, Detlev	WP 076
Starr, James M.	ThP 128	Stoeggel, Wolfgang	WP 368	Suckau, Detlev	WP 514
Staub, Richard	ThP 344	Stolowitz, Mark	ThP 034	Sudakov, Michael	WP 091
Stauber, Jonathan	MOF am 10:35	Stolzenburg, Mark R.	MP 137	Sudakov, Michael	MP 040
Stauber, Jonathan	TP 299	Stone, Kathryn L.	MP 435	Sudo, Kenichi	MP 288
Stauber, Jonathan	WP 066	Stone, Victoria N.	TP 016	Sudo, Ken-ichi	WP 347
Stauber, Jonathan	WP 059	Stone, Victoria N.	WP 194	Sugimoto, Ichiro	ThP 390
Stauder, John L.	MP 036	Stonehouse, Nicola J.	MOE pm 04:30	Sugiura, Yuki	WP 068
Steeegers, Eric A.P.	WP 318	Stoner, Brian R.	WOF am 09:35	Sugiura, Yuki	ThP 093
Steeegers-Theuissen, Regine P.M.	WP 318	Stoop, Marcel P.	TP 484	Sugiura, Yuki	ThP 106
Steele, Paul	ThP 155	Stott, William T.	ThP 009	Sugiyama, Masuyuki	TP 034
Steele, Paul	ThP 155	Stout, Steven J.	ThP 218	Sugiyama, Masuyuki	WP 086
Steen, Hanno	WP 274	Stout II, Daniel M.	WP 208	Sugiyama, Masuyuki	ThP 052
Steen, Hanno	TP 488	Straccini, Christine	TP 444	Sugiyama, Naoyuki	MP 433
Steen, Hanno	WP 503	Straccini, Christine	TP 452	Sugiyama, Naoyuki	ThP 431
Steen, Hanno	WP 282	Strader, Michael Brad	MP 463	Sugiyama, Naoyuki	MP 443
Steen, Hanno	MP 178	Strahler, John	MP 543	Suh, Junghyuck	ThP 239
Steen, Hanno	WP 264	Strahler, John R.	MP 426	Suh, MooJin	TP 327
Steen, Hanno	TP 515	Strahler, John R.	MP 170	Suhai, Sandor	TP 077
Steen, Judith	WP 503	Strahler, John R.	MP 173	Suhai, Sándor	TP 081
Steen, Judith A. J.	WP 264	Straub, Tobias	TP 309	Sukegawa, Masako	ThP 275
Steen, Judith A.J.	TP 515	Straubinger, Robert	ThP 299	Sul, DongGuen	MP 581
Steen, Judith A.J.	TP 488	Strauss, Arnold	WOD am 09:55	Sullards, M. Cameron	WP 058
Steen, Judith AJ	WP 282	Strauss, Kevin	MP 232	Sullards, M. Cameron	WP 420
Stefan, Sarah	TP 192	Straker, Emily D.	MP 487	Sullards, M. Cameron	MOC am 09:35
Stein, Günter	TP 394	Strickland, James L.	ThP 118	Sullivan, David	MP 295
Stein, Stephen	ThP 233	Strife, Robert J.	ThP 360	Sullivan, Robert C.	TOC am 08:35
Stein, Stephen E.	ThOB pm 03:30	Strobel, Fredrick H.	WP 350	Sultana, Jasmin	ThP 127
Stein, Stephen E.	WP 273	Strobel, Herbert	MP 425	Sumner, Lloyd W.	TP 483
Stein, Stephen E.	TP 162	Strobel, Herbert J.	WP 422	Sumner, Lloyd W.	ThP 123
Stein, Stephen E.	TP 174	Strobel, Herbert J.	TP 212	Sun, H-L Patty	WP 361
Stein, Stephen E.	TP 153	Strom, Anna-Lena	MOG am 10:55	Sun, Howard	ThP 347
Stein, Steven E.	ThP 439	Strom, Anna-Lena	TP 312	Sun, Jiangxiao	WP 165
Steinberg, Jordan	WP 489	Strömbblad, Staffan	MOA am 09:35	Sun, Liwei	WP 424
Steinert, Kerstin	WP 042	Strupat, Kerstin	WP 062	Sun, Mai	WP 491
Steinert, Kerstin	ThP 434	Strupat, Kerstin	MP 392	Sun, Na	ThP 487
Steinshamn, Håvard	ThP 109	Strupat, Kerstin	MP 128	Sun, Nian	WP 165
Stella, David R.	MP 460	Strupat, Kerstin	ThOF am 09:35	Sun, Qi	ThP 491
Stemmler, Elizabeth A.	TP 087	Strupat, Kerstin	WP 081	Sun, Qi	TP 315
Stene, Torkel	MP 436	Strupat, Kerstin	TP 207	Sun, Rachel	MP 313
Stener, Mauro	WP 029	Struthers, Jason	WP 495	Sun, Shixin	ThP 509
Stenken, Julie A.	MP 156	Struthers, Jason	TP 458	Sun, W.	TP 045
Stensjö, Karin	MP 572	Strynar, Mark	TP 133	Sun, Wenjian	MP 095

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Sun, Xiuhua	TP 350	Szelewski, Mike	WP 226	Talbi, El-Ghazali	MP 172
Sundaram, Appavu K.	ThP 157	Szleifer, Igal	MP 115	Tallarico, John	WP 152
Sundaram, Appravu K.	ThP 159	Szostek, Bogdan	ThP 133	Talroze, Raya	MP 448
Sung, Amy	WP 331	Sztaray, Judit	WOD am 08:55	Tam, Maggie	ThOG pm 02:30
Surewicz, Witold K.	WP 459	Szymanska, Aneta	ThP 473	Tam, Sun W.	MP 564
Suri, Anish	MP 341	Szymanski, Christine M.	WP 296	Tam, Sunny	MP 585
Suriyamongkol, Bow	TP 510	Tabakoff, Boris	MP 539	Tamura, Hiroto	WP 424
Süß, Rosmarie	WP 414	Tabata, Kenji	TP 254	Tamura, Jun	ThP 241
Sussman, Michael R.	WP 488	Tabata, Tsuyoshi	MP 429	Tamura, Jun	MP 077
Sussman, Michael R.	WP 363	Tabb, David	TP 491	Tamura, Jun	WP 039
Sutherland, Brent	MOB pm 03:30	Tabb, David L.	MP 187	Tamvakopoulos, Constantin	MP 421
Sutherland, FCW	WP 324	Tabet, Jean Claude	ThP 379	Tan, Aimin	ThP 193
Sutherland, FCW	WP 341	Tabet, Jean Claude	WP 026	Tan, Aimin	MP 181
Sutton, Chris	ThP 444	Tabet, Jean-Claude	TP 284	Tan, Denise J. L.	WOD pm 02:30
Sutton, Jennifer N.	WP 553	Tabet, Jean-Claude	WP 336	Tan, John	WP 130
Suwa, Kazuhiro	ThP 167	Tabet, Jean-Claude	WP 355	Tan, Lia-Beng	MP 219
Suzuki, Hideyuki	WP 374	Tabet, Jean-Claude	WP 370	Tan, Lia-Beng	WP 494
Suzuki, Kiyoshi	TP 197	Tabet, Jean-claude	ThP 143	Tan, Phillip	TP 047
Suzuki, Kouji	MP 089	Tabet, Jean-Claude	MP 102	Tan, Phillip	TP 053
Suzuki, Ren	MP 075	Tabet, Jean-Claude	MP 048	Tan, Rui	MP 269
Suzuki, Ren	MP 074	Tabet, Jean-Claude	MP 057	Tan, Rui	ThOC pm 03:30
Suzuki, Sachiko	WP 032	Tabet, Jean-Claude	WP 034	Tanaka, Kazuo	MP 143
Suzuki, Takashi	WP 399	Tabet, Jean-Claude	TP 188	Tanaka, Koichi	TP 201
Svasti, Saovaros	WP 315	Tabet, Jean-claude	WP 164	Tanaka, Koichi	WP 290
Svatoš, Aleš	ThP 043	Tabet, Jean-claude	WP 147	Tanaka, Koichi	ThP 343
Svenningsson, Per	MP 370	Tabet, Jean-claude	WOG am 09:15	Tanaka, Koichi	WP 087
Svensson, Marcus	MP 371	Tabet, Jean-Claude	WP 113	Tanaka, Nobuo	MP 166
Svensson, Marcus	TP 473	Tabet, Jean-Claude	ThP 303	Tanaka, Wesley K.	WP 308
Svoboda, Ryan	TP 280	Tachibana, Kahori	TP 376	Taneda, Yasuyuki	WP 213
Swackhamer, Deborah L.	MOC pm 03:50	Tackett, Alan J.	TP 405	Tang, Haixu	TP 155
Swaim, Casey L.	TP 527	Tackett, Alan J.	TP 366	Tang, Haixu	ThP 088
Swainston, Neil	MOA am 10:55	Tackett, Alan J.	MP 382	Tang, Haixu	WP 270
Swamy, Sajani	WP 526	Taddese, Samuel	MP 376	Tang, Haixu	ThP 264
Swamy, Sajani	MP 174	Tadjimukhamedov, Fatkhulla	TP 046	Tang, Haixu	TP 317
Swaney, Danielle L.	MOA am 09:15	Tadjimukhamedov, Fatkhulla	MP 025	Tang, Haixu	TP 203
Swanson, Leah	MP 236	Taguchi, Ryo	ThP 165	Tang, Haixu	ThP 403
Swart, Kenneth	WP 324	Taguchi, Ryo	TP 183	Tang, Hai-xu	ThP 250
Swart, KJ	WP 341	Taguchi, Vincent Y.	TP 104	Tang, Hsin-yao	WP 547
Swart, Remco	TP 512	Tahallah, Nora	ThP 101	Tang, Jianhua	MP 221
Swatkoski, Stephen	ThP 145	Tahar, Jocelyne	TP 314	Tang, Kai	WP 315
Swatkoski, Steven	MOA pm 03:30	Tai, Susan	MP 229	Tang, Keqi	TP 055
Sweedler, Jonathan	MP 362	Taillon, Marie-Pierre	ThP 361	Tang, Keqi	ThOF pm 02:30
Sweedler, Jonathan	TP 286	Taira, Shu	WP 068	Tang, Keqi	MOE am 09:55
Sweedler, Jonathan	TP 583	Tajiri, Michiko	TP 391	Tang, Liangjie	TP 340
Sweedler, Jonathan V.	TP 290	Tajiri, Michiko	TP 205	Tang, Liu-Ya	WP 529
Sweedler, Jonathan V.	MP 372	Takahashi, Eddie	TP 438	Tang, Ning	ThP 417
Sweedler, Jonathan V.	MP 366	Takahashi, Katsutoshi	WP 060	Tang, Ning	TP 420
Sweedler, Jonathan V.	MP 361	Takahashi, Katsutoshi	TP 206	Tang, Ning	TP 281
Sweeney, Christopher J.	WP 317	Takahashi, Kenshi	MP 139	Tang, Wei-Chien	TP 378
Sweeney, Daniel L.	ThP 164	Takahata, Makoto	MP 252	Tang, Wilfred H.	ThP 252
Sweeney, Matthew D.	ThP 277	Takai, Yoshio	WP 126	Tang, Xiaoting	TP 397
Sweeney, Michelle M.	WP 153	Takami, Tomonori	ThP 165	Tang, Xiaoting	ThP 484
Sweetman, Gavain	MOA am 10:35	Takami, Tomonori	WP 347	Tang, Xiaoting	MOB pm 05:10
Swenberg, James A.	MP 347	Takamoto, Keiji	ThOE pm 02:30	Tang, Xiaoting	MP 560
Swencki-Underwood, Bethany	TP 399	Takats, Zoltan	WP 017	Tang, Xiaoting	ThP 474
Swenson, Charles M.	MP 036	Takatsu, Akiko	ThP 331	Tang, Yi	TP 399
Swenson, Charles M.	MP 041	Takayama, Mitsuo	WP 122	Tang, Yong Q.	ThP 191
Swenson, Sarah M.	WP 334	Takayama, Mitsuo	MP 120	Tani, Kazue	MP 433
Syage, Jack	ThP 150	Takayama, Mitsuo	ThP 039	Tannenbaum, Steven R.	MP 505
Syage, Jack A.	ThP 024	Takeda, Yoshiki	TP 114	Tannenbaum, Steven R.	MP 512
Syage, Jack A.	MP 153	Takeshita, Kengo	MP 099	Tannenbaum, Steven R.	TP 464
Syed, Saima	WP 444	Takeuchi, Sadao	ThP 106	Tanner, Stephen	MP 450
Sykes, D. Craig	TP 249	Takeuchi, Takae	TP 205	Tao, Hiroaki	TP 117
Synovec, Robert E.	ThP 270	Takeuchi, Takae	ThP 064	Tao, Hiroaki	WP 027
Syrstad, Erik A.	MP 041	Takino, Masahiko	ThP 114	Tao, Hiroaki	WP 424
Syrstad, Erik A.	MP 036	Talaty, Erach	TP 088	Tao, Lei	WP 103
Sysoev, Alexey	WP 098	Talaty, Erach	TP 073	Tao, Lei	TP 052
Szakal, Christopher	ThOG am 09:35	Talaty, Nari	MP 012	Tao, Nannan	MP 212
Szekely-Klepser, Gabriella	MP 277	Talaty, Nari	WP 024	Tao, Sheng-Ce	ThP 225
Szekely-Klepser, Gabriella	TOA am 08:55	Talaty, Nari	WP 016	Tao, W. A.	WP 527

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Tao?, W. Andy?	ThP 536	Theberge, Roger	TP 407	Tian, Yuan	TP 379
Tao, W. Andy	MP 509	Théberge, Roger	MP 475	tian, zhixin	TP 065
Tarasova, Irina A.	TP 144	Theddu, Naresh	MP 385	Tice, Joe.	MP 015
Tarasova, Irina A.	MP 058	Thelen, Michael	TP 398	Tice, Joseph	WOF pm 02:50
Tarleton, Rick L.	ThP 258	Thelen, Michael P.	TP 531	Tice, Joseph	ThP 224
Taron, Chris H.	TP 527	Theodoridis, Georgios	WP 359	Tielens, Alexander G.G.M.	MP 134
Tasker, Ellen	TP 228	Theron, HB	WP 341	Tietge, Joseph E.	MP 233
Tassis, Anatoli	ThP 535	Thevanayagam, Lourdes	ThP 391	Timmons, Michael D.	WP 422
Tataly, Nari	WOF am 08:15	Thevis, Mario	WP 316	Tipton, Jeremiah	TP 305
Tate, Stephen	MP 501	Thiam, A	TP 435	Tipton, Jeremiah D.	TP 320
Tate, Stephen	WP 354	Thibault, Danielle B.	TP 292	Tita, Sidonia	WP 260
Tate, Steve	WP 475	Thibault, Pierre	WP 538	Titulaer, Mark	WP 486
Tauch, Socheata	MP 262	Thibault, Pierre	MP 566	Tiwari, Ashutosh	MP 476
Tavazzi, Isabelle	WP 362	Thibault, Pierre	ThOF pm 04:10	Tiwari, Ashutosh	MP 190
Tax, Frans	TP 296	Thibault, Pierre	WP 200	Tjaden, Ubbo	ThP 181
Taylor, Adrian M.	WOA pm 03:10	Thibault, Pierre	TP 322	To, Kam	MP 509
Taylor, Alan W.	ThP 314	Thibault, Pierre	ThOA pm 02:50	Tobarmosquera, Maria	ThOB am 09:35
Taylor, Alan W.	ThP 315	Thibault, Pierre	MP 524	Tobias, Herbert	ThP 155
Taylor, David C.	WP 415	Thibault, Pierre	MP 377	Toda, Tosifusa	TP 386
Taylor, Dennis	MP 049	Thiele, Herbert	TP 502	Todokoro, Ryotaro	WP 067
Taylor, Gregory	WOD pm 04:10	Thiele, Herbert	TP 165	Toews, Judy	MOB pm 03:30
Taylor, Gregory K.	MOF pm 05:10	Thiele, Herbert	TP 147	Toh, Akinori	ThP 064
Taylor, Gregory K.	ThOF am 09:15	Thiele, Herbert	TP 180	Toher, Christopher	WP 199
Taylor, Ivan F.	WP 412	Thiery, Gwendoline	WP 061	Toher, Christopher	ThP 186
Taylor, Jason T.	TP 482	Thiery, Joachim	TP 439	Toher, Christopher J.	ThP 017
Taylor, K. Wayne	TP 262	Thiesen, Hans-Juergen	MP 339	Tokarski, Caroline	TP 314
Taylor, Nicolas L.	TP 321	Thingholm, Tine E.	ThOA am 09:35	Tokarski, Caroline	TP 480
Taylor, Paul	MP 265	Thite, Mohini	MP 030	Tokarski, Caroline	ThP 535
Taylor, Robert	TP 345	Thoemke, Kara R.	MP 233	Tokarski, Caroline	ThP 442
Taylor, Steven	WP 045	Toley, Andreas	MP 575	Tokarski, Caroline	ThP 037
Taylor, Steven	MP 390	Thomas, C. Eric	WP 400	Tokuda, Harukuni	WP 399
Taylor, Steven W.	MP 379	Thomas, C. L. Paul	TP 016	Toler, Strawn K.	TP 038
Taylor Ph.D., Paul A.	MP 276	Thomas, C.L. Paul	WP 194	Tolic, Nikola	MOB pm 05:10
Tcholakov, Isabelle	ThOD pm 03:50	Thomas, Huanani M.	TP 060	Tolic, Nikola	ThP 474
Tcholakov, Isabelle	ThP 196	Thomas, Jamie	ThP 513	Tolic, Nikola	MP 560
Te Braake, Frans	MP 157	Thomas, Michael C.	MOC am 10:15	Tolic, Nikola	WP 510
Teale, Phil	ThP 259	Thomas, Michael J.	MP 533	Tolic, Nikola	ThP 484
Tebbe, Andreas	MP 554	Thomas, Paul M.	WP 394	Tolley, H. Dennis	WOF pm 03:30
Tegeler, Tony	TP 530	Thomas, Paul M.	ThOF am 09:55	Tolley, H. Dennis	WOF am 08:55
Tegeler, Tony	WP 542	Thomas, Paul M.	MP 559	Tolley, Samuel E.	WOF am 08:55
Teixeira, Sandra R.	ThP 321	Thomas, Tom	Special Poster	Tolley, Samuel E.	WOF pm 03:30
Telford, William G.	MP 469	Thomas-Oates, Jane	WP 408	Tolmachev, Aleksey V.	TP 518
Tell, Gianluca	MP 547	Thompson, Christopher	ThP 455	Tolmachev, Dmitry A.	MP 058
Tepe, Jetze J.	ThP 420	Thompson, Christopher J.	WP 131	Tolmachev, Dmitry A.	MP 060
Teplov, Victor	WP 098	Thompson, Christopher J.	ThP 023	Tomany, Michael J.	MP 004
Teramoto, Kanae	WP 424	Thompson, Dorothea	TP 275	Tomer, Kenneth B.	TP 358
Terefenko, Gene	MP 018	Thompson, Gary S.	MOE pm 04:30	Tomer, Kenneth B.	TP 336
Terhune, Scott S.	MP 574	Thompson, LaDora V.	ThOE pm 04:10	Tomer, Kenneth B.	MP 496
Terlouw, Johan K.	TP 104	Thompson, Matthew S.	WOE pm 04:10	Tomita, Masaru	MP 433
Terris, Benoit	WP 061	Thompson, Melissa	TP 275	Tomita, Masaru	ThP 165
Terry, Doris	TP 291	Thompson, Reid C.	WP 485	Tomita, Masaru	MP 443
Terry, Doris E.	TP 538	Thompson, S P	WP 046	Tomita, Masaru	ThP 431
Terry Jr., Alvin V.	ThP 240	Thompson, S P	ThP 065	Tomita, Masato	WP 004
Terry Jr., Alvin V.	ThP 304	Thompson, Vicki	TP 539	Tomkins, Bruce A.	MP 316
Terry, Jr., Alvin V.	MP 083	Thomson, Bruce	ThP 356	Tomlinson, Andy J.	MP 401
Terunuma, Atsushi	MP 469	Thomson, Bruce A.	TOF am 08:35	Tomski, Ilia	MP 038
Tesfu, M.	WP 341	Thomson, James A.	MOA am 09:15	Tong, Wei	MP 565
Teshima, Munehiro	WOD am 09:15	Thomson, Sandra	MP 351	Tong, Weiwei	TP 177
Tessier, Claire A.	TP 129	Thomson, Sandra	MP 353	Tong, Weiwei	MP 180
Testa, Jacqueline	MP 470	Thomson, Sandra A.	MP 234	Tong, Weiwei	TOE am 09:15
Thain, Emma	MP 342	Thomy, Vincent	WP 066	Tong, Xin	MP 485
Thakur, Anup P.	TP 212	Thornberry, Laura	WP 140	Tonokura, Kenichi	ThP 364
Thalassinos, Konstantinos	MP 225	Thorpe, Susan R.	TOB pm 02:30	Topisirovic, Ivan	TP 328
Thalassinos, Konstantinos	MP 005	Thorson, Jon S.	ThP 327	Topisirovic, Ivan	ThP 480
Thalassinos, Konstantinos	ThP 251	Thotala, Dinesh	TP 289	Topisirovic, Ivan	TP 547
Thalassinos, Konstantinos	TOD am 08:15	Thuen, Erling	ThP 109	Topp, Elizabeth M.	ThP 388
Thannhauser, Theodore	ThP 498	Thuenemann, Andreas	MOG pm 04:10	Topp, Elizabeth M.	MP 375
Thannhauser, Theodore W.	ThP 486	Thulasiraman, Vanitha	TP 437	Torcassi, Cameron	ThP 502
Thayumanavan, Sankaran	MP 385	Thurman, Earl Michael	ThOG am 08:15	Torchia, John W.	WP 391
Thayumanavan, Sankaran	TP 574	Thyparambil, Sheeno	WP 499	Torchilin, Ekaterina	WP 228

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space



INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Torchilin, Kate	MP 231	Trusch, Maria	ThP 207	Uboh, Cornelius E	WP 196
Torii, Tomohiro	TP 386	Tsai, Jyp-Ping	TP 550	Ubukata, Masaaki	ThP 241
Torimura, Masaki	TP 117	Tsai, Chia-Feng	WP 534	Ubukata, Masaaki	MP 143
Torimura, Masaki	WP 424	Tsai, Chia-Feng	TP 316	Uchino, Kiichiro	WP 067
Torimura, Masaki	WP 027	Tsai, Fuu-Jen	MP 217	Uchiuni, Kai	ThP 357
Tornaeus, Jarkko	TP 414	Tsai, Mei-Ling	ThP 433	Udeshi, Namrata D	WOA am 09:15
Tortella, Frank C.	TP 443	Tsai, Ming-Daw	TP 269	Udeshi, Namrata D	TP 360
Tortorelli, Silvia	MP 232	Tsai, Ming-Li	WP 476	Udey, Ruth N	MP 284
Toth, Blanka	WP 017	Tsai, Shan-Ting	TP 039	Udseth, Harold R	WP 533
Toth, Michael J	MOA am 09:55	Tsai, Sheng-ta	ThP 465	Ueno, Yuko	MP 134
Toth, Miklos	WP 017	Tsarbopoulos, Anthony	MP 434	Utrecht, Charlotte	TOD am 09:35
Totura, Allison	MP 353	Tse, Francis	ThP 508	Utrecht, Charlotte	WP 142
Totura, Allison L.	MP 234	Tse, Francis L.S	MP 218	Ugarov, Michael	MP 088
Touboul, David	ThOC am 09:15	Tseng, Mei-chun	ThP 042	Ugarov, Michael V	MOF am 09:55
Touboul, David	WP 152	Tseng, Tzu-Ling	WP 465	Ugarov, Michael V	TP 054
Touboul, David	WP 115	Tsinoremas, Nicholas F.	WP 262	Ugarov, Michael V	WP 099
Tougasaki, Fumio	ThP 390	Tsipi, Despina	TP 090	Uhlén, Mathias	WOA pm 04:10
Toumi, Melinda L.	TP 387	Tsuboi, Masahiro	ThP 472	Ulintz, Pete	ThP 493
Toups, Kristina	MP 050	Tsuchiya, Masahiko	ThP 006	Ulintz, Peter J.	WP 281
Tour, James M.	TP 059	Tsunasawa, Susumu	TP 497	Ulrich, Eldon L.	WP 363
Towers, Mark	ThP 040	Tsunasawa, Susumu	TP 505	Umbdenstock, Thierry	WP 370
Townes, Tim M.	WP 479	Tsutsui, Yuko	TP 348	Unanue, Emil R.	MP 341
Townsend, Craig A.	WP 430	Tsybin, Oleg Yu	TOB am 08:55	Unger, Klaus K.	ThP 207
Toyoda, Michisato	MP 074	Tsybin, Yury O.	TOB am 08:55	Unger, Steve	WP 172
Toyoda, Michisato	MP 075	Tu, Lan Chun	TP 470	Unger, Steve E.	MOD am 09:15
Toyoshima, Takahiro	ThP 064	Tu, Shengjian	TP 269	Unkefer, Clifford J.	WOD am 09:15
Tozuka, Zenzaburo	ThP 165	Tu, Shuyang	MP 565	Unkefer, Pat J.	WOD am 09:15
Tozuka, Zenzaburo	WP 347	Tu, Tingting	ThP 029	Unmi, Kim	TP 395
Traber, Maret G.	ThP 314	Tu, Yaping	ThOD pm 02:50	Unterwurzacher, Ines	WP 368
Tracy, Eugene	TP 168	Tuccio, Beatrice	MP 093	Upadhyaya, Pramod	WP 492
Tracy, Eugene R.	WP 259	Tuck, Missy	ThP 389	Uprichard, Margaret J.	WP 178
Tracy, Eugene R.	MP 183	Tucker, Aimee M.	TP 542	Upton, Lori Ann	MP 579
Tracy, Eugene R.	WP 268	Tuley, Tammy	WP 188	Upton, Lori Ann	TP 573
Tracy, Maureen	WP 268	Tulliez, Jacques	ThP 330	Urano, Fumihiko	MP 564
Tracy, Maureen	TP 168	Tuomikoski, Santeri	WP 203	Urbina, Hugo D.	MP 551
Tracy, Maureen B.	WP 259	Turecek, Frantisek	WP 310	Urdaci, Maria	WP 431
Traktman, Paula	TP 532	Turecek, Frantisek	WOE pm 03:50	Urfer, Wolfgang	WP 266
Tran, Buu N.	ThP 373	Turecek, Frantisek	TP 035	Urfer, Wolfgang	ThP 407
Tranguch, Susanne	MP 535	Turecek, Frantisek	MP 444	Urfer, Wolfgang	ThP 407
Tranguch, Susanne	TP 295	Turecek, Frantisek	TP 024	Urfer, Wolfgang	MOB pm 04:30
Trauger, Sunia	WP 434	Turecek, František	WP 416	Usmanov, Dilshodbek	TP 031
Trauger, Sunia	TP 176	Turecek, František	ThOG pm 02:50	Usui, Fumihiko	TP 476
Trauger, Sunia A.	WP 423	Turecek, František	MP 384	Utley, Lucas	WOE am 08:55
Tremblay, Patrice	WP 246	Turesky, Robert J.	TOC am 09:35	Uttenweiler-Joseph, Sandrine	WP 501
Tremblay, Patrice	WP 229	Turgeon, Coleman T.	MP 222	Utzat, Chris	MP 360
Tremblay, Patrice	ThP 227	Turk, Douglas J.	MP 248	Utzat, Christopher	TP 571
Tremblay, Patrice	ThP 112	Turk, John	MOC am 09:55	Uutela, Päivi Susanna	TP 223
Tret'yakov, Kirill	ThP 233	Turlin, Evelynne	WP 504	Uvaydov, Yuriy	WP 237
Tretyakova, Natalia	TOC am 09:55	Turner, Austin	WP 175	Vachet, Richard W.	MP 385
Tretyakova, Natalia	TOC am 09:15	Turner, David	MP 264	Vachet, Richard W.	TP 356
Treuheit, Michael	WOA am 09:35	Turner, Kevin B.	WP 163	Vachet, Richard W.	WP 508
Treuheit, Michael	ThP 388	Turner, Kevin B.	WP 477	Vachet, Richard W.	TP 574
Treuheit, Michael	TP 273	Turner, Kevin B.	ThP 068	Vachet, Richard W.	MP 497
Treuheit, Michael J.	ThP 280	Turner, Nigel	ThP 324	Vachet, Richard W.	MP 482
Treves Brown, Bernard J.	WP 194	Tuse, Daniel	ThP 462	Vadhanam, Manika V.	WP 343
Trible, Ronald P.	MP 494	Tuszynski, Jack	TP 331	Vaezzadeh, Ali R.	TP 165
Trifonova, Oxana P.	TP 485	Twaddle, Nathan C.	ThP 298	Vaezzadeh, Ali R.	ThP 222
Trikoupis, Moschoula A.	TP 104	Twigger, Simon	MP 546	Vail, Teresa M.	MP 007
Trim, Paul J.	ThP 097	Twine, Susan	TP 385	Vaillancourt, Fred H.	WP 400
Trimpin, Sarah	ThP 286	Tyan, Yu-Chang	WP 494	Vainiotalo, Pirjo	ThP 075
Trimpin, Sarah	ThOF pm 02:50	Tyan, Yu-Chang	MP 219	Vaitkunas, Katrina	WP 125
Trimpin, Sarah	MOG pm 04:30	Tyers, Mike	WP 475	Vakhrushev, Sergey Y.	ThP 284
Trinh, Ann	TP 219	Tyler, Andrew N.	ThP 321	Vakhrushev, Sergey Y.	ThP 285
Trinidad, Jonathan C.	MP 181	Tyritzis, Stavros I.	WP 483	Valaskovi, Gary	ThP 186
Tripa, Emil	WOG pm 03:10	Tysk, C.	TP 563	Valaskovic, Gary	MOD am 10:55
Troiani, Sonia	ThP 432	Tzen, Jason T.C.	ThP 342	Valaskovic, Gary	WOE am 08:55
Tromp, Robert J.	WP 260	Uberbacher, Edward C.	MP 383	Valaskovic, Gary A.	WP 516
Trost, Matthias	ThOA pm 02:50	Uboh, Cornelius	WP 245	Valaskovic, Gary A.	TP 029
Trost, Matthias	WP 538	Uboh, Cornelius	ThP 301	Valaskovic, Gary A.	MP 267
Trucco, Massimo	ThP 537	Uboh, Cornelius	MP 258	Valaskovic, Gary A.	TOF pm 03:10
				Valaskovic, Gary A.	ThP 017

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Valaskovic, Gary A	ThP 182	van Wijk, Klaas	TP 315	Verhelst, Steven	ThP 476
Valaskovic, Gary A	WP 199	van Wijk, Klaas J	ThP 491	Verioti, Tincuta	ThP 169
Valaskovic, Gary A	ThP 021	Vandamme, Stefaan	MP 446	Verkerk, Udo H	WOG am 08:15
Valentine, Joan S	WP 463	Vandegoor, Tom	WP 510	Vermeulen, Michiel	MP 395
Valentine, Stephen	ThOF pm 02:50	Vanderpuije, Benjamin	WP 508	Vermeulen, Michiel	ThOA am 09:55
Valentine, Stephen	TP 043	Vanderver, Adeline	MP 428	Vermeulen, N.P.E.	WP 346
Valle, Fernando	WP 184	Vanselow, Jens	TP 516	Vermeulen-Jourdan, Laetitia	MP 172
Vallee, Francois	WP 181	Vanzile, Michael	MP 492	Verneuil, Bernard	WP 431
Vallee, Francois	ThP 193	Varenne, Anne	ThP 370	Verneuil, Nicolas	TP 542
Vallée, François	MP 255	Varesio, Emmanuel	MP 154	Verplanck, Nicolas	WP 066
Vallée, François	WP 246	Varesio, Emmanuel	MP 257	Verreault, Alain	MP 566
Vallejo, Martha	WP 321	Varesio, Emmanuel	ThP 289	Verschuren, Esther J	ThOB am 08:55
Valsasina, Barbara	ThP 432	Vargas, David	WP 019	Versluis, Cees	TOD am 09:35
Van agthoven, Maria	MP 072	Vargek, Maria E	MP 158	Versluis, Cees	TP 041
van Agthoven, Maria	MP 066	Varner, Dickson	MP 503	Vertes, Akos	MOE am 09:35
van Amerom, F.H.W	WOF am 09:55	Vasicek, Lisa	TP 191	Vertes, Akos	MOF am 10:55
Van Berkel, Gary J	WP 015	Vasilev, Yury	WP 396	Vertes, Akos	TP 256
Van Berkel, Gary J	MP 012	Vasilev, Yury V	WP 028	Vertes, Akos	TP 257
Van Berkel, Gary J	WP 005	Vassileiou, Chrysoula	MP 284	Veryovkin, Igor	WOG pm 03:10
Van Berkel, Gary J	WP 014	Vauchier, Claude	ThP 184	Veryovkin, Igor V	MP 031
van Breemen, Richard B	MP 455	Vaughn, Raymond C	WP 219	Vestal, Marvin	TOF am 08:15
Van breemen, Richard B	WP 344	Vaz, Frédéric	MP 224	Vesterqvist, Ole	TP 438
van Breemen, Richard B	WP 387	Veal, Duncan	TP 478	Viccarone, Stephen	MP 311
van Breemen, Richard B	ThP 223	Veale, Christopher J	WP 149	Viccarone, Stephen M	ThP 358
van Breemen, Richard B	WP 393	Veenstra, Timothy D	MP 469	Vidal, Christian	MP 354
van Breemen, Richard B	WOE am 09:55	Veenstra, Timothy D	ThOA am 08:35	Vidavsky, Ilan	WP 271
van Breemen, Richard B	WP 383	Veenstra, Timothy D	TOB pm 03:30	Vieira, José G.H.	WP 304
van Breemen, Richard B	ThP 427	Veenstra, Timothy D	TP 300	Vierling, Elizabeth	WP 148
van Breemen, Richard B	WP 407	Veenstra, Timothy D	ThP 424	Vigh, Gyula	TP 477
van Breemen, Richard B	ThOD pm 02:30	Veenstra, Timothy D	ThOB am 09:55	Viidanoja, Jyrki	WP 098
van Breemen, Richard B	MP 273	Veenstra, Timothy D	MP 466	Vilkov, Andrey N	MP 058
van Breemen, Richard B	MP 271	Veenstra, Timothy D	WP 358	Vilkov, Andrey N	MP 060
Van Cott, Kevin	TP 276	Veenstra, Timothy D	TP 481	Vilkov, Andrey N	TP 036
van de merbel, Nico	WP 168	Veenstra, Timothy D	TP 432	Vilkov, Andrey N	MP 133
Van de Plas, Raf	WP 078	Veenstra, Timothy D	TP 533	Vilkov, Andrey N	MP 059
van den Berg, Bart H.J	MP 333	Veenstra, Timothy D	ThP 466	Villa, Sandra	WP 429
van der Greef, Jan	ThP 181	Veenstra, Timothy D	TP 158	Villano, Stephanie M	WP 123
van der Gugten, Grace	ThP 211	Vegetti, Luca	MP 024	Villari, Joseph	MP 326
van der Heijden, Rob	ThP 181	Veijola, Riitta	TP 461	Vilmos Kertesz, Vilmos	WP 015
van der Horst, Eric	WP 168	Veine, Donna	MP 170	Vinatier, Denis	TP 299
van der Merwe, M	WP 341	Venable, John	WP 261	Vincent, Valérie	WP 248
van der Merwe, MJ	WP 324	Venable, John D	MOA pm 04:10	Vincke, Cecile	ThP 475
van der Meulen, Eric	WP 379	Venkatakrishnan, Priya	MOG am 10:55	Viner, Rosa	MP 389
van der Schors, Roel C	ThP 515	Vennarini, Joe	TP 419	Vinet, Françoise	ThP 184
Van Dorsselaer, Alain	TP 509	Venne, Karine	ThP 217	Vinh, Joelle	ThP 544
Van Dorsselaer, Alain	MP 584	Veno, Peter	TP 170	Vinogradov, P.S	MP 023
Van Dorsselaer, Alain	TP 494	Venter, Andre	WP 012	Vintiloiu, Anda	WP 200
Van Dorsselaer, Alain	WP 504	Venter, Andre	WP 035	Vissers, Hans	ThP 285
Van Goudoever, Johannes B	MP 157	Venter, Andre	WP 013	Vissers, Hans	ThP 284
van Hilten, Jacobus	MP 527	Vera-Avila, Luz-Elena	TP 127	Vissers, Johannes P. C	WP 430
van Kampen, Jeroen J.A	ThOB am 08:55	Verardi Abdelnur, Patricia	WP 020	Vissers, Johannes P. C	WP 275
Van Lente, Frederick	MP 221	VerBerkmoes, N.C	TP 563	Vissers, Johannes P.C	WP 277
van Lenthe, Henk	MP 224	VerBerkmoes, Nathan	TP 398	Vissers, Johannes P.C	TP 571
van Liere, Robert	WP 073	Verberkmoes, Nathan	MP 431	Vissers, Johannes P.C	MP 499
van Ling, Robert	TP 512	Verberkmoes, Nathan C	TP 529	Vissers, Johannes PC	WP 437
van Maarseveen, Jan H	TP 353	Verberkmoes, Nathan C	TP 531	Viswanathan, Nina	ThP 419
Van Onckelen, Harry	MP 446	Verberkmoes, Nathan C	WP 425	Vitale, Maxime	TP 353
van Oostrum, Jan	ThP 084	Verbruggen, Gust	TP 556	Vitek, Olga	TP 169
van Rijswijk, Angelique	WP 486	Verdier-Pinard, Pascal	ThP 522	Vitek, Olga	WP 493
van Soest, Remco	ThP 185	Verdonk, Peter C.M	TP 556	Vitek, Olga	ThP 255
Van Stipdonk, Michael	MP 119	Verentchikov, Anatolii	MP 079	Vivekanandan-Giri, Anuradha	ThP 318
Van Stipdonk, Michael	TP 081	Verentchikov, Anatoly	TOF am 09:15	Viveros-Rogel, Monica	WP 410
Van Stipdonk, Michael	MP 161	Vereschagin, Vladimir A	MP 324	Vladimirov, Gleb	MP 069
Van stipdonk, Michael J	TP 073	Verger, Denis	WP 151	Vlahou, Antonia	WP 483
Van stipdonk, Michael J	MP 107	Vergne, Matthew J	TP 126	Vlahou, Antonia	TP 469
Van stipdonk, Michael J	ThP 073	Verhaert, Peter	MP 394	Vogel, Jonathan C	MP 469
Van Stipdonk, Michael J	TP 060	Verhaert, Peter	WP 062	Vogt, Frederick G	WP 133
Van stipdonk, Michael J	TP 088	Verhaert, Peter	MP 368	Vohra, Rahul	MP 259
Van stipdonk, Michael J	TP 074	Verhaert, Peter D	ThP 091	Vohra, Rahul	WP 566
van Waasbergen, Loraine	TP 514	Verhagen, Marc	TP 363	Voillard, Sandrine	MP 102

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Voinov, Valery G.	WP 396	Walker, John E.	MP 465	Wang, Qi	MP 476
Voinov, Valery G.	WP 084	Wall, Stephanie B.	TP 389	Wang, Rong	WP 467
Vollmer, Susanne	WP 512	Wallace, William E.	TP 106	Wang, Rong	WP 498
Vollmerhaus, Pauline J.	WP 260	Wallace, William E.	MOG pm 05:10	Wang, Rongying	TP 575
Vollmerhaus, Pauline J.	ThP 226	Wallace, William E.	TP 122	Wang, Tao	ThP 377
Volmer, Dietrich A.	MOD am 09:55	Walls, Elwood	ThP 459	Wang, Tiansong "Tony"	TP 545
Volmer, Dietrich A.	ThP 367	Walsh, Christopher T.	WP 400	Wang, Weiqun	ThP 061
Volny, Michael	MP 444	Walsh, Ronan	MP 538	Wang, Weixun	MP 589
Volny, Michael	TP 035	Walter, Ronald B.	ThP 339	Wang, Xiaorong	MP 561
Volny, Michael	TP 024	Walter, Ulrich	TP 382	Wang, Y. Karen	ThP 218
Volný, Michael	ThOG pm 02:50	Walters, Benjamin T.	MP 556	Wang, Yan	ThP 526
Volpon, Laurent	ThP 480	Walters, James J.	MP 341	Wang, Yan	ThOD pm 03:50
Volpon, Laurent	TP 328	Walther, Daniel	ThP 222	Wang, Yan	ThP 196
Volpon, Laurent	TP 547	Waltrip, James	ThP 195	Wang, Yanfei	ThP 457
von Hagen, Joerg	ThP 468	Walzthoeni, Thomas	MOB pm 04:50	Wang, Yang	MP 397
Vorm, Ole	TP 167	Wan, Leren	WP 121	Wang, Yang	TP 471
Vorm, Ole	TP 170	Wan, Lianglu	ThP 430	Wang, Ying	MP 156
Vorwerg, Lars	TP 394	Wan, Terence S M	TP 132	Wang, Yinsheng	WP 445
Vourekas, Stavros	WP 483	Wanders, Ronald	TP 468	Wang, Yinsheng	WP 451
Vouros, Paul	TP 218	Wang, Amy	WOB pm 03:50	Wang, Yinsheng	MP 453
Vouros, Paul	TP 222	Wang, Benlian	MP 506	Wang, Yinsheng	WP 450
Vouros, Paul	WP 108	Wang, Bo	MP 381	Wang, Yinsheng	TP 404
Vouros, Paul	TOC am 08:35	Wang, Chin-Hsiung	WP 332	Wang, Yinsheng	TOC am 08:55
Vouros, Paul	MP 360	Wang, Dongdong	ThP 182	Wang, Yinsheng	MP 456
Vouros, Paul	TOD pm 03:10	Wang, Elaine	WP 420	Wang, Yinsheng	ThP 479
Vouros, Paul	MP 270	Wang, Elaine W.	MOC am 09:35	Wang, Yinsheng	WP 446
Vouros, Paul	ThP 336	Wang, Eunice	TP 368	Wang, Yi-sheng	WOF pm 03:50
Vrkoslav, Vladimir	TP 541	Wang, Gehua	MP 319	Wang, Yi-Sheng	TP 039
Vrkoslav, Vladimir	ThP 319	Wang, Gen-Shuh	TP 091	Wang, Yong	MP 393
Vrkoslav, Vladimir	MP 148	Wang, Guangdi	MP 238	Wang, Yongdong	ThP 360
Vudathala, Daljit	MP 352	Wang, Guanghui	ThP 253	Wang, Yongdong	TP 260
Vu-Phan, Dang	TP 436	Wang, Guanghui	TP 525	Wang, Yongdong	WP 263
Vyas, Kanan	WOC pm 03:50	Wang, Guanghui	TP 151	Wang, Yuan-yuan	WP 095
W. Coulton, James	ThP 531	Wang, Guochun	TP 218	Wang, Yuesong	WP 310
W. Wu, Wells	ThP 253	Wang, Guoping	MOE pm 04:10	Wang, Yuhui	MP 553
Waanders, Leonie F.	ThP 514	Wang, Hay-Yan J.	TP 054	Wang, Zeneng	TP 402
Wada, Yoshinao	WP 039	Wang, Hay-Yan J.	MOF am 09:55	Wang, Zhen	MP 089
Wada, Yoshinao	TP 391	Wang, Hong	WP 495	Wang, Zhengtao	ThP 351
Wada, Yoshinao	TP 205	Wang, Hong	TP 458	Wang, Zhengtao	WP 572
Wada, Yoshinao	WP 030	Wang, Hongxia	WP 451	Wang, Zihao	TP 282
Waelkens, Etienne	WP 078	Wang, Houle	MOF pm 05:10	Wang, Zihao	TP 381
Wäfler, Esther	WP 023	Wang, James J.	MP 245	Wanner, Barry L.	WP 016
Wagenaar, Melissa	ThP 081	Wang, Jenny Pui Shan	MP 092	Ward, Brian	TP 452
Wagener, Markus	WP 379	Wang, Jian	TP 182	Ward, Brian	TP 444
Wagner, Andrew D.	WP 309	Wang, Jiayi	WP 469	Ward, Brian J.	TP 435
Wagner, Andrew D.	WP 167	Wang, Jiayi	MP 171	Ward, Brian J.	MP 502
Wagner, Andrew D.	MP 418	Wang, Jiayi	ThP 525	Ward, Michael A.	MP 586
Wagner, Elizabeth D.	TP 095	Wang, Jing	TP 486	Ward, Michael D.	ThP 437
Wagner, Michel	MP 257	Wang, Junhua	WP 197	Ward, Weslyn C.	MOC am 09:15
Wagner, Michel	ThP 289	Wang, Junmei	WP 443	Waridel, Patrice	ThP 512
Wahl, Guido	WP 376	Wang, Kai-Yi	ThP 041	Warnet, Anna	WP 147
Waidelich, Dietmar	MP 464	Wang, Kefei	ThP 110	Warnten, Uwe	TOB pm 03:50
Waitt, Greg M.	WP 155	Wang, Kevin K. W.	TP 443	Warrack, Bethanne	WP 369
Waki, Izumi	WP 086	Wang, Laixin	ThP 296	Warrander, John	WP 267
Waki, Izumi	TP 023	Wang, Lan	MP 532	Warrander, John	TP 252
Waksman, Gabriel	WP 151	Wang, Liwen	ThOA am 09:15	Warrander, John	WOB pm 04:10
Wakutani, Yosuke	TP 463	Wang, Mei	TP 471	Warren, Maria	MP 546
Walbrodt, Dirk	ThP 032	Wang, Miao	WOF pm 03:30	Warren, Maria	TP 553
Walch, Axel	WP 076	Wang, Minjuan	WP 182	Warren, Maria E.	WP 554
Walden, Peter	MP 473	Wang, Mu	TP 530	Warren, Maria E.	TP 412
Waldron, Michael	MP 160	Wang, Mu	TP 313	Warren, Maria Esteban	ThP 425
Waldt, Annick	ThP 084	Wang, Nan	TP 577	Warren, Mark	WP 329
Wales, Thomas E.	TOD am 08:55	Wang, Nan	TP 466	Warren, Mark	WP 253
Wales, Thomas E.	MP 494	Wang, Nan	TP 487	Warscheid, Bettina	MP 467
Walker, Angela K.	MP 426	Wang, Pei	WP 552	Warscheid, Bettina	ThP 414
Walker, Angela K.	MP 170	Wang, Peng	MP 047	Warscheid, Bettina	TP 468
Walker, Angela K.	ThP 162	Wang, Peng	TP 557	Warthen, Christopher R.	MP 382
Walker, Angela K.	MP 173	Wang, Peter	ThP 347	Wash, Paul	WP 342
Walker, Bennett N.	TP 257	Wang, Peter	ThP 110	Washburn, Michael	TP 303
Walker, Jeffery W.	ThP 416	Wang, Ping	ThP 334	Washburn, Michael P.	ThP 268

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Watanabe, Eri	MP 288	Wen, Guolin	MP 529	White, John	MP 343
Watanabe, Junji	MP 268	Wen, Ren	WP 164	White, Nicholas J	ThP 293
Waters, James K	ThP 287	Wen, Zhiming	TP 236	White, Robert J	MP 276
Waters, Tom	TP 072	Wendingling, Karen S	WP 216	White, Robert L	WP 128
Watson, Bonnie S	ThP 123	Wendingling, Karen S	WP 220	White, Thomas	MP 159
Watson, Bonnie S	TP 483	Wendt, Christine	MP 520	White, Thomas P	MP 035
Watson, David	TP 460	Wendt, Juergen	WP 187	White, Thomas P	MP 162
Watson, David E	TOA am 08:15	Wendt, Juergen	MP 355	White, Thomas P	WOF pm 02:30
Watson, Desiree	TP 142	Wendt, Juergen	MP 354	Whiteaker, Jeffrey	WP 552
Watson, Michael S	MP 041	Weng, Lee	WP 553	Whitehouse, Craig	WP 402
Watson, Michael S	MP 036	Weng, Lee	WP 547	Whitehouse, Craig M	MP 162
Watt, Stephen J	TOD am 09:55	Weng, Naidong	TP 248	Whitehouse, Craig M	MP 035
Watts, Joel	TP 463	Weng, Naidong	ThP 203	Whitehouse, Craig M	WOF pm 02:30
Watts, Julian	MP 420	Weng, Zhiping	MP 180	Whitelegge, Julian	WP 480
Watts, Julian	WP 493	Wenger, Craig D	WP 394	Whitelegge, Julian	WOD pm 03:10
Watts, Julian	TP 169	Wenger, Craig D	WOA am 08:35	Whitelegge, Julian P	ThP 460
Waybright, Timothy	WP 358	Wenger, Craig D	MP 559	Whitelegge, Julian P	WP 463
Wayland, Matthew	MP 532	Wenger, Craig D	ThOF am 09:55	Whitelegge, Julian, P	WOA am 08:55
Weatherly, D. Brent	ThP 387	Wenrich, Lisa	TP 457	Whiteley, Gordon R	ThP 462
Weatherly, D. Brent	ThP 386	Wenthold, Paul G	MP 091	Whitson, Sara E	MP 010
Weatherly, D. Brent	ThP 381	Wenthold, Paul G	TP 067	Whitten, William B	ThP 047
Weatherly, D. Brent	ThP 258	Wenthold, Paul G	WP 139	Whitten, William B	WP 090
Weatherly, Daniel B	MP 537	Wenthold, Paul G	WP 118	Whitten, William B	WP 088
Weaver, Dennis	WP 259	Wenthold, Paul G	WP 117	Whitwell, Corbin	MP 535
Weaver, Katherine D	WP 464	Wenzel, Ryan	ThOG am 09:55	Whitwell, Corbin A	MP 452
Webb, Brian	MP 071	Wenzel, Ryan	MP 555	Whyatt, Robin M	ThP 237
Webb, Kristofor	MP 456	Wenzel, Ryan	TP 354	Wiatrek, Rebecca	ThP 455
Webb, Michael R	TOF pm 02:50	Wenzel, Ryan J	MP 082	Wick, Charles H	WP 427
Webb, Miles	MP 259	Were, Lilian M	ThP 341	Wick, Charles H	MP 329
Webb, Miles	WP 566	Werner, Erwan	WP 355	Wick, Wolfgang	TOB pm 03:50
Weber, Dorcas	TP 352	Werner, Erwan	WP 370	Wickramasekera, Samantha I	WP 239
Weber, Walter	TP 093	Wernérus, Henrik	WOA pm 04:10	Wickramesekera, Nadi	TP 532
Wedge, David	MP 196	Wernke, Gregory R	MP 187	Widart, Joelle	ThP 506
Weerasekera, Gayanga	ThP 237	Wertz, Ingrid	TP 279	Wiese, Sebastian	TP 468
Weerasekera, Rasanjala	TP 463	Wery, Jean-Pierre	WP 542	Wiesler, Donald	MP 309
Wehr, Angela	ThOD am 09:15	Wery, Jean-Pierre	TP 530	Wijeratne, Aruna B	WP 136
Wehr, Tim	ThP 532	Wesdemiotis, Chrys	MP 278	Wijeratne, Neloni R	WP 117
Wei, Jun S	TP 300	Wesdemiotis, Chrys	TP 124	Wikoff, William	MOD pm 05:10
Wei, Junhua	WP 472	Wesdemiotis, Chrys	TP 129	Wikström, Jenny	ThP 452
Wei, Liang	TP 168	Wesdemiotis, Chrys	TP 115	Wilcox, Bruce E	ThP 341
Wei, Ru	WOD am 08:15	Wesdemiotis, Chrys	MP 010	Wilcox, J. Micah	WP 448
Wei, Xiaorong (Sharon)	WP 043	Wesdemiotis, Chrys	TP 125	Wilcox, Robert J	ThP 382
Wei, Xin	TP 454	Wesdemiotis, Chrys	MOG pm 04:50	Wildgoose, Jason L	MP 073
Weidner, Steffen M	MOG pm 04:10	Wesdemiotis, Chrys	ThP 334	Wilds, Christopher J	ThP 336
Weidnt, Stefan	TP 270	Wesseldijk, Feikje	MP 527	Wildsmith, Kristin R	MP 529
Weidnt, Stefan K	WP 156	West, Andrew	ThP 097	Wiley, H. Steven	WP 428
Weil, David	WP 357	West, Andy	ThP 500	Wiley, Steven	TP 518
Weimer, Bart	TP 467	West, James	TOE am 09:15	Wilken, Michael	WP 212
Weinberger, Klaus M	WOD am 08:35	West, James	ThP 271	Wilkins, John A	TOE am 08:55
Weinmann, Wolfgang	MP 226	West, James	TP 177	Wilkinson, David	MP 244
Weinshilboum, Richard M	MP 222	Westmacott, Garrett	MP 319	Willard, Lynellen	TP 047
Weintraub, S. T	TP 359	Weston, Daniel J	MP 168	Willeford, Kenneth O	MP 333
Weintraub, Susan T	TP 350	Weston, Daniel J	ThOE am 08:55	Willency, Jill A	MP 408
Weintraub, Susan T	MP 517	Weston, Jason	WP 269	Willency, Jill A	TOA am 08:15
Weis, David D	TOD am 08:55	Westphal, Carmen	TP 361	Willetts, Matthew	MP 544
Weis, David D	TP 334	Westphall, Michael	ThP 443	Willetts, Gary D	WP 412
Weis, Paige	ThP 468	Westphall, Michael S	MP 084	Willetts, Matthew	ThP 493
Weiss, Louis	TP 156	Westphall, Michael S	ThP 025	Willetts, Matthew	ThP 495
Weiss, Louis M	TP 537	Wexler, Margaret	WP 425	Willey, Dru	MP 375
Weiss, Louis M	ThP 522	Weyandt, Jamie	TP 451	Williams, Brad J	MP 503
Welch, Michael J	MP 229	Whalen, Kevin	ThP 171	Williams, Brent	TP 043
Welkie, David	MP 162	Whalley, Christopher E	MP 234	Williams, Evan R	WP 198
Wellman, Amber D	ThP 005	Wheeler, David	MP 583	Williams, Evan R	ThOG pm 03:50
Wells, J. Mitchell	TOG pm 02:30	Wheeler, Michael	TP 552	Williams, John	MP 270
Wells, J. Mitchell	TP 026	Wheeler, Robbie	WP 231	Williams, John	MP 543
Wells, Mitch	WOF am 08:35	Wheelhouse, Kevin	MP 043	Williams, John C	TP 340
Welsh, Eric A	TP 534	White, Aaron	MOA pm 04:50	Williams, Jon D	WP 155
Welsh, Manda J	ThP 461	White, Amanda M	WP 428	Williams, Jonathan P	TP 057
Welthagen, Werner	ThP 236	White, Angie	TP 558	Williams, Jonathan P	MP 005
Welty, Devin	TOD pm 03:30	White, Earl L	ThP 462	Williams, Jonathan P	MP 225

Program Code: M, T, W, Th = Day O = Oral A, B, C, D, E, F, G = Session am = Morning, pm = Afternoon Time  
M, T, W, Th = Day P = Poster Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Williams, Jonathan P.	ThP 411	Wishart, David S.	TP 510	Wright, John	TOE pm 03:30
Williams, Katherine	MP 510	Wishnok, John S.	MP 512	Wright, Phil	WP 515
Williams, Katherine E.	MP 327	Wishnok, John S.	TP 464	Wright, Phillip	MP 572
Williams, Kenneth R.	MP 396	Wishnok, John S.	MP 505	Wright, Phillip C.	TP 528
Williams, Lara	MP 336	Wissdorf, Walter	ThP 008	Wrona, Mark D.	ThOD pm 04:10
Williams, Lara	TOA am 09:35	Wisthaler, Armin	ThP 056	Wrona, Monika	MP 292
Williams, Lee	ThP 201	Wisztorski, Maxence	TP 299	Wu, Alex	WP 233
Williams, Lee	ThP 189	Wisztorski, Maxence	WP 066	Wu, Bohan	WOG am 08:35
Williams, Lee	ThP 210	Wisztorski, Maxence	MOF am 10:35	Wu, Chin-Jen	ThP 433
Williams, Megan H.	ThP 237	Wisztorski, Maxence	WP 059	Wu, Christine	WOD pm 02:50
Williams, Michelle V.	ThOD am 09:15	Witkiewicz, Halina	ThP 496	Wu, Christine	ThP 448
Williams, Michelle V.	MP 505	Witkowska, H. E.	TP 359	Wu, Christine C.	ThP 445
Williams, Sarah	TP 173	Witkowska, H. Ewa	WP 293	Wu, Christine C.	MP 539
Williams, Taufika Islam	ThP 382	Witkowska, H. Ewa	MP 513	Wu, Christine C.	TOA pm 03:10
Williams, Taufika Islam	TP 373	Witt, Matthias	ThP 127	Wu, Chungping	WP 055
Williams, Taufika Islam	MP 062	Witt, Matthias	TP 102	Wu, Chungping	WP 112
Williams, Taufika Islam	MP 050	Witt, Matthias	ThP 136	Wu, Chungping	WP 159
Williams, Todd	WP 338	Witt, Matthias	MP 145	Wu, Fang	TP 487
Williams, Todd D.	MP 375	Witters, Erwin	MP 446	Wu, Fang	TP 466
Williams, Tracie L.	MP 315	Witthuhn, Bruce	MP 233	Wu, Guangxiang	MOC am 10:55
Williams, Tracie L.	MOA am 10:15	Woffendin, Gary	ThP 089	Wu, Guangxiang	MP 283
Williams, Jr., D. Keith	TP 579	Woffendin, Gary	TP 143	Wu, Jianyong	MP 411
Williams, Jr., D. Keith	MP 065	Wohlschlegel, James A.	TP 496	Wu, Jia-Rui	TP 521
Williams, Jr., D. Keith	MP 062	Wolf, Dieter A.	TOA pm 03:50	Wu, Jin	WP 444
Williamson, Brian	ThP 515	Wolff, Jean-Claude	TP 258	Wu, Jin	ThP 027
Williamson, Brian	MP 544	Wolff, Jeremy J.	WOB am 09:35	Wu, Jing-Tao	MOD am 10:55
Williamson, Leah N.	TP 095	Wolff, Jeremy J.	WP 140	Wu, Jing-Tao	MP 015
Williamson, Leah N.	MP 083	Wolff, Jeremy J.	TP 210	Wu, Kuang Jen	TOC pm 03:50
Williard, Clark V.	MP 265	Wolff, Megan A.	MOB pm 05:10	Wu, Kuang Jen	ThP 155
Willmann, Jan	TP 180	Wolff, Susanne	ThP 518	Wu, Kuang Jen	ThP 467
Willmitzer, Lothar	WP 353	Wolkenstein, Klaus	ThP 366	Wu, Kuang Jen J.	ThP 015
Willoughby, Ross	MP 042	Wollnik, Hermann	TP 046	Wu, Kuang Jen J.	ThP 104
Willoughby, Ross C.	TP 014	Wollscheid, Bernd	WOD pm 03:30	Wu, Lianming	WP 133
Willoughby, Ross C.	MOE am 10:35	Wolter, Scott D.	WOF am 09:35	Wu, Ligang	ThP 467
Willshaw, Peter	MP 296	Wolters, Dirk	ThP 418	Wu, Ligang	ThP 104
Wilm, Matthias	WP 285	Wong, Bradley K.	ThP 194	Wu, Ligang	TOC pm 03:50
Wilm, Matthias	MP 414	Wong, Catherine C L.	TOB am 08:35	Wu, Lingyun	WP 339
Wilmarth, Phillip A.	MP 427	WONG, Colton H F.	TP 132	Wu, Quincey	WP 253
Wilmarth, Phillip A.	TP 271	Wong, David	WP 487	Wu, Quincey	WP 329
Wilmes, Paul	WP 425	Wong, David T.	MP 515	Wu, Rong	TP 503
Wilmes, Paul	TP 531	Wong, David, T.	WOA am 08:55	Wu, Sheng-Jiun Sam	TP 399
Wilson, Christina	MP 514	Wong, Jesse	TP 263	Wu, Shiao-Lin	TP 278
Wilson, Ian	WP 359	Wong, Lilly	MP 510	Wu, Shiao-Lin	ThP 182
Wilson, Ian	ThOD pm 03:30	Wong, Philip	WP 185	Wu, Shiao-Lin	ThP 469
Wilson, Ian D.	ThOE am 08:55	Wong, Richard L.	MP 053	Wu, Shiao-Lin	TP 417
Wilson, Jeffrey	TP 080	Wong, Stephen	WP 505	Wu, Si	ThOE pm 03:30
Wilson, Jonathan	MOF pm 03:50	Wong, Susan	ThP 391	Wu, Wei-Kang	TP 550
Wingate, Julia E.	ThP 098	Wong, Venney	TP 514	Wu, Wells W.	TP 151
Wingate, Julia E.	WP 372	Woo, Gun-Jo	ThP 239	Wu, Wells W.	TP 525
Winger, Brian	TP 070	Wood, David O.	TP 542	Wu, Xiyang	TP 558
Wingreen, Ned	ThOA pm 03:10	Wood, JodiAnne	MP 270	Wu, Yan	WP 554
Winkler, Erika	MP 546	Wood, Troy D.	WP 219	Wu, Yan	TP 345
Winkler, Wolfgang	WP 041	Wood, Troy D.	ThP 436	Wu, Yan	TP 567
Winnik, Witold M.	ThP 128	Wood, Troy D.	MP 424	Wu, Yi-Bo	TP 521
Winnik, Witold M.	ThP 447	Wood, Troy D.	WOE am 08:35	Wu, Yin	ThP 250
Winograd, Nicholas	ThP 098	Woodman, B.	WP 549	Wu, Zhanpin	MP 011
Winslet, MC	ThP 259	Woods, Amina	WP 411	Wu, Zhaoxiang	ThP 069
Winter, Dominic	TP 272	Woods, Amina	WP 147	Wu, Zhigang	ThP 391
Wintermute, J. Steve	ThP 198	Woods, Amina S.	MOE pm 03:50	Wu, Zhiping	TP 402
Wintermute, Steve	WP 333	Woods, Amina S.	WP 160	Wu, Zhuchun	WP 170
Winters, Doug	WP 567	Woods, Amina S.	MOF am 09:55	Wuhrer, M.	TP 204
Winters, Nancy	TP 491	Woods, Amina S.	TP 054	Wuhrer, Manfred	TP 283
Wintrode, Patrick L.	TP 348	Woods, Jr., Virgil L.	TP 326	Wurtele, Hugo	MP 566
Wintrode, Patrick L.	WP 459	Woolfitt, Adrian R.	MOA am 10:15	Wyatt, Shane A.	MP 322
Wirtala, Matthew	MP 124	Woolfitt, Adrian R.	MP 198	Wylie, Phillip L.	WP 226
Wirtala, Matthew	TOB am 09:55	Woolfitt, Adrian R.	TOG pm 03:50	Wynn, Jeffrey	ThP 017
Wirth, Urs	ThP 084	Woolfitt, Adrian R.	MP 321	Wysocki, Vicki	WP 239
Wiseman, Justin M.	WP 075	Workman, Jerry L.	ThP 268	Wysocki, Vicki	ThP 062
Wiseman, Justin M.	ThP 099	Wortmann, Arno	ThOC am 09:15	Wysocki, Vicki	ThOG pm 03:10
Wiseman, Leonard	TP 263	Wortmann, Arno	ThOG am 09:55	Wysocki, Vicki H.	TP 059

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Wysocki, Vicki H	WP 135	Xu, Tao	TP 163	Yang, Qiwei	MP 525
Wysocki, Vicki H	WP 148	Xu, Tao	TOB am 08:35	Yang, Shi Yu	ThP 259
Wysocki, Vicki H	TOD am 09:15	Xu, Tao	TP 496	Yang, Tao	MOA pm 04:50
Wysocki Jr., Ronald J	TP 059	Xu, Tao	MOA pm 04:10	Yang, Tzung-Jie	MP 272
Wysocki, Vicki H	WOE pm 03:10	Xu, Tao	TP 160	Yang, Weijie	MP 176
Xavier, Chrysantha	ThP 306	Xu, Wei	WP 093	Yang, Weijie	ThP 269
Xia, Cindy	MP 015	Xu, Wei	TP 032	Yang, Wen-chu	TP 570
Xia, Qiangwei	TP 545	Xu, Xia	ThOB am 09:55	Yang, Wen-Chu	TP 214
Xia, Yu	ThP 328	Xu, Yang	WP 539	Yang, Wenchu	ThP 380
XIA, YU	MP 094	Xu, Ying	WP 164	Yang, X. William	ThP 529
Xia, Yu	MP 130	Xu, Ying	TP 188	Yang, Xiaoyu	TP 162
Xia, Yu	MOF pm 04:30	Xu, Yingda	MP 391	Yang, Xiaoyu	ThP 520
Xia, Yu	MP 096	Xu, Yun	MP 309	Yang, Xiaoyu	TP 174
Xiang, Fan	ThP 397	Xue, Yongjun	WP 172	Yang, Xiaoyu (Sara)	ThOB pm 03:30
Xiang, Fan	MP 201	Xue, Richard	MP 307	Yang, Xing-Lin	TP 521
Xiang, Fan	ThP 369	Xue, Xiaofeng	ThP 108	Yang, Xu	WP 502
Xiang, Fan	TP 535	Xun, Zhiyin	TP 434	Yang, Yanan	ThP 527
Xiang, Fan	ThP 457	Yabushita, Akihiro	MP 139	Yang, Yanan	TP 395
Xiang, Ying	ThP 347	Yamada, Kuriko	MP 204	Yang, Ying	TP 552
Xiao, Gang	TP 431	Yamada, Masaki	TP 386	Yang, Yingbo	MP 248
Xiao, Hui	TP 156	Yamaguchi, Kentaro	TP 009	Yang, Yingying	MP 550
Xiao, Hui	ThP 522	Yamaguchi, Mihoko	MP 252	Yang, Yong	ThP 486
Xiao, Xiaoyao (XY)	WP 308	Yamaguchi, Minoru	TP 505	Yang, Yong	ThP 498
Xiao, Xudong	ThP 016	Yamaguchi, Minoru	TP 497	Yang, Zhi	MP 110
Xiao, Zhen	MP 466	Yamaguchi, Shinichi	MP 081	Yang, Zhibo	WOE pm 03:30
Xiao, Zilan	ThP 057	Yamaguchi, Shinichi	TP 252	Yang, Zhibo	ThOC am 08:35
Xiao, Zilan	ThP 059	Yamaki, Satoshi	MP 081	Yang, Zhibo	WOG am 09:55
Xie, Bo	TP 196	Yamamoto, Atsushi	TP 117	Yang, Zhihua	ThP 086
Xie, Bo	WOB am 08:55	Yamamoto, Atsushi	WP 027	Yang, Zhiyong	TP 368
Xie, Hongwei	WOA pm 02:30	Yamaoka, Hiroshi	WP 126	Yang, Zhongyu	MP 087
Xie, Hongwei	ThOE pm 04:10	Yamashita, Toshiyuki	ThP 435	Yang, Ziping	ThP 508
Xie, Hongwei	ThOB am 08:35	Yamazaki, Jun	TP 543	Yao, Dongdong	MP 548
Xie, Sheng-xue	MP 375	Yamazaki, Syuji	TP 543	Yao, Huifang	ThP 005
Xie, Yi	TP 467	Yamazaki, Yuzo	WP 290	Yao, Huifang	TP 118
Xin, Baomin	WP 182	Yan, Dalai	TP 530	Yao, Ming	TOD pm 04:10
Xin, Baomin	ThOD am 08:55	Yan, Huiming	TP 511	Yao, Quing	ThP 423
Xing, Jie	TP 104	Yan, Weiying	ThP 310	Yao, Xudong	WP 509
Xing, Rui	WP 500	Yan, Xiaowei	TP 470	Yao, Xudong	ThP 478
Xiong, Wenman	ThP 336	Yan, Xinjian	WP 273	Yao, Xudong	ThP 543
Xiong, Yeping	WP 348	Yan, Xuguang	MP 481	Yao, Xudong	MP 399
Xu, Allan	MP 301	Yan, Zhixia	MP 218	Yates, John R	TOB am 08:35
Xu, Baogang J	ThP 471	Yanagishita, Takashi	WP 030	Yates, John R	TP 163
Xu, Chong-Feng	WP 532	Yanagishita, Takashi	WP 039	Yates, John R	WP 261
Xu, Fei	ThP 038	Yang, Changming	MP 358	Yates, John R. III	WP 192
Xu, Fran	WP 245	Yang, Chao-yuh	ThOD am 09:55	Yates, N. A	TP 359
Xu, Fran	WP 337	Yang, Charles T	TP 099	Yates, Nathan A	ThP 090
Xu, Fuxin	WP 095	Yang, David	MP 585	Yates, Nathan A	MP 589
Xu, Fu-Xing	WOF pm 03:10	Yang, Dong	WP 453	Yates, Nathan A	WP 548
Xu, Guifen	TP 253	Yang, Eric	WOB pm 03:50	Yates, Nathan A	ThP 083
Xu, Guoqiang	MP 576	Yang, Feng	WP 533	Yates, Ryan Charles	ThP 340
Xu, Hua	MP 195	Yang, Heyi	WP 498	Yates III, John R	TP 160
Xu, Hua	MP 199	Yang, Hua	MP 399	Yates, III, John R	MOA pm 04:10
Xu, Hua	ThOA am 09:15	Yang, Jia Jin	MP 335	Yates, III, John R	TP 496
Xu, Keyang	MP 336	Yang, Jie	ThP 327	Yavor, Michail	TOF am 09:15
Xu, Keyang	TOA am 09:35	Yang, Jingyi	ThP 430	Yazlovitskaya, Eugenia M	TP 289
Xu, Li	ThP 125	Yang, Jiong	ThP 337	Ye, Sha	ThOC am 08:15
Xu, Meng	WP 326	Yang, Ju	MP 254	Ye, T.J	MP 092
Xu, Meng	ThP 240	Yang, Junhai	WP 071	Ye, Xibiao	TP 133
Xu, Ming	WP 458	Yang, Lan	TP 187	Ye, Zheng	WP 518
Xu, Ming	TP 153	Yang, Lan	ThP 308	Yeh, Geoffrey K	TP 425
Xu, Ming	TP 161	Yang, Lanhao	TP 269	Yeh, Suzie	WP 254
Xu, Ningzhi	MP 565	Yang, Lei	MP 565	Yen, Andrew	MP 147
Xu, Qiuwei	MP 298	Yang, Li	ThP 351	Yen, Andrew T	MP 135
Xu, Rongda	ThP 215	Yang, Li	WP 572	Yen, Chia-yu	ThP 410
Xu, Rongda	ThP 160	Yang, Li	ThP 474	Yen, Ten-yang	TP 362
Xu, Rongda	ThP 220	Yang, Linan	TP 071	Yergey, Alfred L	MP 191
Xu, Rongda	MP 227	Yang, Lin-Chiang	WP 401	Yergey, Alfred L	MP 197
Xu, Rongfang	WP 196	Yang, Peng	WOF pm 03:10	Yergey, James	MOD am 10:35
Xu, Rongfang	ThP 301	Yang, Peng	ThP 045	Yeung, Edward S	TOC pm 03:10
Xu, Rongfang	ThP 190	Yang, Peng	WP 095	Yeung, Edward S	WP 077

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Yeung, Ken K.-C.	TP 576	Young, Scott	ThP 332	Zaia, Joseph	WP 292
Yi, Jizu	MP 578	Young, Scott A.	ThP 326	Zakharova, Natalia	ThP 474
Yi, Xianhua	WP 272	Young, Scott A.	ThP 384	Zakharova, Natalia	MOB pm 05:10
Yi, Xianhua	TP 506	Young, Scott A.	MP 474	Zakharova, Natalia L.	ThP 484
Yi, Zhengping	MP 517	Young, Steven	TP 499	Zakharova, Natalia L.	MP 560
Yi-Brunozzi, Hye Young	WP 163	Young, Steven	TP 553	Zalaska, Margaret M.	WP 331
Yi-Brunozzi, Hye Young	WP 477	Younis, Islam R.	WP 230	Zamborg, Leonid	MP 559
Yilmaz, Ecevit	ThP 379	Yousef, Ahmed E.	ThP 079	Zamboulis, Lucas	TP 159
Yin, Hongfeng	ThOB am 08:15	Ytterberg, A. Jimmy	TP 332	Zamfir, Alina D.	ThP 276
Yin, Hongfeng	WP 518	Ytterberg, A. Jimmy	WP 523	Zamfir, Alina D.	WOB am 09:15
Yin, Hongfeng	TP 135	Ytterberg, Anders J.	ThP 398	Zappacosta, Francesca	ThP 500
Yin, Sheng	MOG am 09:35	Yu, Chongwoo	WP 326	Zappacosta, Francesca	MP 440
Yocum, Anastasia	MP 186	Yu, Eizadora	TP 337	Zarbl, Helmut	TOC am 08:35
Yocum, Anastasia K.	WOA pm 03:30	Yu, Eizadora T.	WOC am 09:35	Zare, Richard N.	MP 046
Yocum, Anastasia K.	MP 170	Yu, Haiqiang	ThP 369	Zaridze, David G.	TP 485
Yoda, Katsunori	ThP 261	Yu, Jingyi	MP 470	Zarling, Angela	MP 340
Yoder, Robin N.	TP 146	Yu, Jingyi	ThP 496	Zaugg, Steven D.	ThP 231
Yohannes, Elizabeth	MP 506	Yu, Kate	WOB pm 03:30	Zavitsanos, Paul	ThOG am 08:15
Yokosuka, Toshiyuki	TP 277	Yu, Kate	WOD am 09:35	Zazzeroni, Raniero	MP 342
Yokosuka, Toshiyuki	WP 086	Yu, Kebin	TP 166	Zecca, Luigi	MOC am 09:15
Yokosuka, Toshiyuki	ThP 172	Yu, Li-Rong	TP 300	Zeck, Anne	TP 377
Yoo, Hyun Ju	ThP 067	Yu, Lu	WP 526	Zeller, Martin	MP 128
Yoo, Jong Shin	MP 051	Yu, Meng	WP 093	Zeller, Martin	MP 052
Yoo, Jong Shin	MP 061	Yu, Meng	TP 032	Zeman, Stacey L.	TP 243
Yoo, Jong Shin	MP 541	Yu, Nanxiang	WP 492	Zemski-Berry, Karin A.	TP 185
Yoon, Joo Young	WP 278	Yu, Shaoxia	MP 015	Zeng, Chenhui	WP 361
Yoon, Jung	TP 565	Yu, Tianwei	WP 350	Zeng, Jianing	WP 320
Yoon, Oh-Kyu	MP 046	Yu, Yi-Kuo	MP 185	Zeng, Lu	ThP 215
York, William S.	MP 205	Yu, Yi-Kuo	ThP 253	Zeng, Lu	ThP 220
York, William S.	WP 299	Yu, Ying-qing	MP 580	Zeng, Lu	ThP 221
Yoshida, Kouichi	ThP 472	Yu, Yonghao	ThP 277	Zeng, Rong	TP 521
Yoshida, Yoshikazu	ThP 106	Yu, Yonghao	MOB am 10:35	Zeng, Rong	TP 203
Yoshida, Yoshikazu	MP 099	Yuan, Chao	ThP 403	Zeng, Rong	ThP 403
Yoshikawa, Hiromichi	WP 424	Yuan, Cheng-Hui	TP 010	Zeng, Rong	MP 526
Yoshimura, Satoru	ThP 064	Yuan, Cheng-Hui	TP 018	Zeng, Rong	WP 529
Yoshimura, Tsutomu	TP 234	Yuan, Chunhua	ThP 079	Zenobi, Renato	ThOG am 09:55
Yoshinari, Kiyomi	ThP 172	Yuan, Jie	ThOA pm 03:10	Zenobi, Renato	MP 555
Yoshioka, Shinji	MP 204	Yuan, Long	WP 344	Zenobi, Renato	MP 294
Yost, Richard A.	TP 007	Yuan, Xianglin	MP 531	Zenobi, Renato	MP 023
Yost, Richard A.	TP 006	Yuan, Xianglin	MP 530	Zenobi, Renato	WP 152
Yost, Richard A.	ThP 100	Yuan, Xianglin	MP 193	Zenobi, Renato	WP 115
Yost, Richard A.	WP 233	Yue, Bingfang	WP 306	Zenobi, Renato	MP 337
Yost, Richard A.	WP 080	Yue, Guihua	ThP 182	Zenobi, Renato	MP 082
Yost, Richard A.	WP 070	Yue, Qin	ThP 292	Zenobi, Renato	ThOC am 09:15
Yost, Richard A.	MP 302	Yuen, Denis	MP 175	Zerefos, Panagiotis	TP 469
Yost, Richard A.	TP 216	Yuen, Denis	ThP 269	Zerefos, Panagiotis	WP 483
Yost, Richard A.	MP 230	Yuki, Masahiro	ThP 114	Zerweck, Johannes	MP 339
Yost, Richard A.	TP 048	Yuki, Nobuhiro	WP 291	Zhai, Jianjun	ThP 446
Yost, Richard A.	ThP 094	Yukinaga, Hideo	WP 347	Zhai, Jianjun	MOG am 10:55
Yost, Richard A.	ThP 230	Yunokawa, Harunobu	ThP 261	Zhai, Jianjun	TP 312
Yost, Richard A.	WP 094	Yurchenko, Valentina A.	TP 485	Zhai, Jianjun	WP 544
You, Fong-Wei	TP 550	Yurimoto, Hisayoshi	WP 067	Zhai, Junhui	MP 326
You, Jinsam	WP 542	Zabrouskov, Vlad	MOG am 09:35	Zhan, Xianquan	MP 521
You, Jinsam	TP 530	Zabrouskov, Vlad	WP 081	Zhan, Xianquan	TP 562
You, Jinsam	TP 548	Zabrouskov, Vlad	WOA am 08:55	Zhang, Baichen	WP 364
You, Younyoung	TP 502	Zabrouskov, Vlad	ThP 163	Zhang, Donglu	WP 172
You, Youwen	WP 245	Zabrouskov, Vlad	ThOF am 09:35	Zhang, Duxi	TP 248
You, Youwen	WP 337	Zabrouskov, Vlad	ThP 416	Zhang, Fagen	MP 344
You, Youwen	WP 196	Zacharias, Philipp	MP 111	Zhang, Fagen	ThOD am 09:35
Youm, Jeong-Rok	ThP 350	Zagorevski, Dmitri I.	WP 458	Zhang, Fagen	ThP 009
Youm, Jeong-Rok	ThP 348	Zagorevski, Dmitri V.	MP 156	Zhang, Guangyu	MP 473
Young, Alex B.	TP 081	Zagorevskii, Dmitri V.	ThP 373	Zhang, Guoan	ThP 517
Young, J. Bryce	TOE am 08:15	Zahedi, René Peiman	TP 382	Zhang, Guodong	MP 083
Young, Malin	TP 337	Zaia, Joseph	TP 196	Zhang, Guodong	ThP 304
Young, Mary K.	TP 172	Zaia, Joseph	WOB am 08:55	Zhang, Haijing	ThP 463
Young, Matthew A.	ThP 438	Zaia, Joseph	WP 298	Zhang, Hailong	TOE pm 03:50
Young, May	TP 233	Zaia, Joseph	WP 289	Zhang, Hailong	MP 211
Young, Meggie N.	ThP 015	Zaia, Joseph	ThP 283	Zhang, Haiying	TP 128
Young, Nicolas L.	ThP 015	Zaia, Joseph	ThP 282	Zhang, Haiying	WP 369
Young, Sarah P.	WOD am 08:55	Zaia, Joseph	WP 297	Zhang, Haizhen	MOE pm 03:30

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space

INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Zhang, Haizhen	MOB pm 05:10	Zhang, Xiang	ThP 459	Zhong, Feng	ThP 226
Zhang, Haizhen	ThP 474	Zhang, Xin	MP 254	Zhong, Feng	TP 224
Zhang, Haizhen	MP 560	Zhang, Xu	ThP 219	Zhong, Feng	TP 227
Zhang, Heidi	TP 051	Zhang, Xu	ThP 443	Zhong, Feng	ThP 214
Zhang, Hongshan	TP 537	Zhang, Xu	ThP 071	Zhong, Hongying	MP 507
Zhang, Hongshan	ThP 522	Zhang, Y. Heidi	WP 552	Zhong, Hongying	ThP 477
Zhang, Hongyu	WP 357	Zhang, Yan	MP 520	Zhong, Ming	TP 286
Zhang, Hui	TOC pm 03:10	Zhang, Yan Ling	ThP 344	Zhou, An	MOA pm 04:50
Zhang, Hui	TP 379	Zhang, Yan Ling	MP 236	Zhou, Chunshui	TOE pm 02:30
Zhang, Hui	WP 077	Zhang, Yi	WP 525	Zhou, Hui	MP 210
Zhang, Hui	TP 459	Zhang, Yi	WP 531	Zhou, Jizhong	TP 546
Zhang, Huijuan	ThP 146	Zhang, Yi	ThP 175	Zhou, Kai	ThP 083
Zhang, Huimin	WP 497	Zhang, Ying	ThP 229	Zhou, Li	TP 412
Zhang, Huimin	MP 493	Zhang, Ying	ThP 247	Zhou, Li	WP 554
Zhang, Isabella	WP 083	Zhang, Ying	ThP 401	Zhou, Manshui	WP 055
Zhang, J. Isabella	ThP 536	Zhang, Ying	TP 384	Zhou, Ming	TP 158
Zhang, Jennifer	TP 418	Zhang, Yinong	ThP 220	Zhou, Ming	ThOA am 08:35
Zhang, Jennifer	TP 253	Zhang, Yinong	ThP 215	Zhou, Ming	ThP 424
Zhang, Jenny	MP 277	Zhang, Yinong	ThP 221	Zhou, Qinwei	TP 426
Zhang, Jian	MP 573	Zhang, Yuening	ThP 454	Zhou, Wenxu	TOC pm 03:10
Zhang, Jianmin	MP 484	Zhang, Yufen	TP 250	Zhou, Yan	TP 408
Zhang, Jianming	WP 525	Zhang, Yuling	TP 424	Zhu, Haining	ThP 446
Zhang, Jifeng	TP 051	Zhang, Yuntao	TP 197	Zhu, Haining	MOG am 10:55
Zhang, Ji-Hu	ThP 218	Zhang, Zhongqi	MP 131	Zhu, Haining	WP 544
Zhang, Jing J.	MP 536	Zhang, Zhongqi	TP 416	Zhu, Haining	TP 312
Zhang, Jun	WP 500	Zhang, Zijia	ThP 351	Zhu, Harry	ThOG pm 02:30
Zhang, Junmei	ThP 490	Zhang, Zijia	WP 572	Zhu, Heng	ThP 225
Zhang, Kate	TP 423	Zhao, Cheng	WOB am 08:55	Zhu, Lee	MP 263
Zhang, Lei	ThP 352	Zhao, Cheng	TP 196	Zhu, Maolei Harry	TP 058
Zhang, Lei	MP 334	Zhao, Chunsheng	MOB pm 04:10	Zhu, Mary	TP 422
Zhang, Li	MP 292	Zhao, Connie	WP 342	Zhu, Mingshe	TOD pm 04:10
Zhang, Li	ThP 333	Zhao, Jamie	ThP 295	Zhu, Mingshe	ThOD am 08:55
Zhang, Liangyi	TP 075	Zhao, Jamie	WP 178	Zhu, Peijuan	MP 279
Zhang, Lihe	ThP 537	Zhao, Jane	TP 186	Zhu, Xiaodong	TP 230
Zhang, Li-kang	TP 263	Zhao, Jia	WOA pm 02:50	Zhu, Yixin	MP 579
Zhang, Li-kang	MP 274	Zhao, Jia	ThP 397	Zhu, Yongdong	ThP 295
Zhang, Liliang	ThP 351	Zhao, Jia	MP 201	Zhu, Yongdong	WP 178
Zhang, Linqi	MP 507	Zhao, Jing	ThP 108	Zhu, Yongxin	MP 240
Zhang, Liwen	MP 195	Zhao, Jing	ThP 441	Zhu, Yongxin	ThP 099
Zhang, Liwen	ThP 079	Zhao, Junfang	WOG am 08:15	Zhu, Yu	MP 033
Zhang, Mei-Yi	WP 331	Zhao, Lei	WP 552	Zickus, Mike	MP 451
Zhang, Michael Xinzhong	MP 301	Zhao, Qin	ThP 046	Zientek, Keith D.	TP 137
Zhang, Ming	TP 455	Zhao, Qin	WP 097	Ziff, Edward B.	MP 569
Zhang, Mingwu	TP 171	Zhao, Rui	TP 518	Zijlstra, Freek	MP 527
Zhang, Mingxuan	MP 490	Zhao, Sabrina	TP 229	Zilberman, Alla	MP 165
Zhang, Qiang	WP 384	Zhao, Xianguo	ThP 351	Zilch, Lloyd	ThP 022
Zhang, Qiang	MP 110	Zhao, Xianguo	WP 572	Zilch, Lloyd W.	MP 045
Zhang, Qiang	MP 238	Zhao, XianZhen	ThP 057	Ziller, Joseph W.	ThP 359
Zhang, Qibin	TP 281	Zhao, XianZhen	ThP 059	Zimmer, Jennifer S.	WP 360
Zhang, Qing	TP 458	Zhao, Xueheng	ThP 140	Zimmermann, Carolyn M.	ThP 049
Zhang, Qing	MP 495	Zhao, Yingming	MP 462	Zimmermann, Ralf	ThP 236
Zhang, Qingchun	MP 453	Zhao, Yingming	ThP 490	Zimmermann-Ivol, Catherine G.	TP 165
Zhang, Rui	WP 533	Zhao, Yingming	MP 391	Zimmermann-Ivol, Catherine G.	ThP 222
Zhang, Shaofeng	WP 007	Zhao, Yongyuan	TP 140	Zinovev, Alexander V.	MP 031
Zhang, Sheng	WP 519	Zhao, Yuanyuan	TP 097	Zirah, Severine	TP 284
Zhang, Sheng	ThP 486	Zhao, Yuanyuan	MP 151	Zitzewitz, Jill A.	WOC pm 02:50
Zhang, Sheng	ThP 498	Zhao, Yuan-yuan	WP 218	Zobawa, Monika	TP 324
Zhang, Terry	TP 525	Zhao, Yuwen	ThP 295	Zoghbi, Sami S.	WP 389
Zhang, Terry	MP 389	Zhao, Zhixin	ThP 120	Zolodz, Melissa	TP 195
Zhang, Terry	MP 462	Zhen, Eugene	TP 460	Zomer, Bert	ThP 174
Zhang, Tianyi	WP 174	Zhen, Yuejun	TOA am 08:15	Zon, Leonard I.	TP 464
Zhang, Tianyi	MP 160	Zheng, Dong	TP 187	Zoppi, Ugo	MP 249
Zhang, Tiao	WP 551	Zheng, Haiyan	MOA pm 04:30	Zörntlein, S.	MP 355
Zhang, Wei-wei	MP 585	Zheng, Haiyan	WP 456	Zou, Wei	TP 208
Zhang, Wujuan	ThP 313	Zheng, Jing	MP 050	Zou, Yan	MP 456
ZHANG, XI	ThP 453	Zheng, Joanna	ThOD am 08:55	Zougman, Alexandre	WOA pm 03:50
Zhang, Xia-Jun	MP 011	Zheng, Xiaojing	TP 348	Zrybko, Carol	WP 006
Zhang, Xiang	ThP 173	Zheng, Xiaoyang	TP 417	Zu, Ge	MP 292
Zhang, Xiang	TP 171	Zheng, Yufang	ThP 233	Zubarev, Roman A.	TOB am 08:15
Zhang, Xiang	WP 207	Zhong, Feng	WP 260	Zubarev, Roman A.	ThOB pm 03:50

Program Code: M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space



INDEX OF AUTHORS

AUTHOR	CODE	AUTHOR	CODE	AUTHOR	CODE
Zubarev, Roman A.	MOA am 09:35	Zumwalt, Michael	MP 345	Zvonic, Sanjin	TP 558
Zubarev, Roman A.	TP 307	Zürbig, Petra	MP 508	Zvonok, Nikolai	MP 378
Zucca, Fabio A.	MOC am 09:15	Zurek, Gabriela	WP 352	Zweigenbaum, Jerry	ThP 114
Zuccato, Ettore	ThP 138	Zurek, Gabriela	WP 381	Zweigenbaum, Jerry A.	ThOG am 08:15
Zueckert-Gaudenz, Karin	TP 303	Zurek, Gabriela	WP 311	Zybailov, Boris	ThP 491
Zuleta, Ignacio	MP 046	Zurek, Gabriela	ThP 349	Zybailov, Boris	TP 315
Zulich, Alan W.	WP 427	Zurek, Gabriela	MP 285		
Zulich, Alan W.	ThP 249	Zurek, Gabriela	WP 390		
Zulich, Alan W.	MP 329	Zurek, Gabriela	ThP 122		

**Program Code:** M, T, W, Th = Day      O = Oral      A, B, C, D, E, F, G = Session      am = Morning, pm = Afternoon      Time  
M, T, W, Th = Day      P = Poster      Poster board space